



## ControlReg series Alarms and Parameters list

Instruction manual

LEROY-SOMER™

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All for dreams

# ControlReg series

## Alarms and Parameters list

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## Alarms and Parameters list

### 1 - GENERALITIES

This description covers the following products:

ControlReg200	SW version 1.00.x or later
ControlReg200P	SW version 1.00.x or later

This document is a complementary part of the installation and maintenance manual ref. 5304 that can be downloaded in the Leroy-Somer homepage.

### 2 - ALARM LIST

#### 2.1 - General information about the alarm list

##### 2.1.1 - Alarm list features and options

In the following, these abbreviations are used:

**G: Generator**

**GB: Generator breaker**

**MB: Mains breaker**

**N/A: Not available**

This chapter includes a complete alarm list, including all possible options. Therefore, this chapter is to be used for reference when specific information about the individual parameters is needed for the unit setup.

The table consists of the following possible adjustments:

- Set point: The alarm set point is adjusted in the set point menu.

The setting is a percentage of the nominal values.

- Delay: The timer setting is the time that must expire from the alarm level is reached until the alarm occurs.

- Relay output A: A relay can be activated by output A.

- Relay output B: A relay can be activated by output B.

- Enable: The alarm can be activated or deactivated.

ON means always activated, RUN means that the alarm has run status.

This means it is activated when the running signal is present.

- Fail class: When the alarm occurs the unit will react depending on the selected fail class.

Fail classes are:

Fail class	Description
F1	Block
F2	Warning
F3	Trip GB
F4	Trip + Stop
F5	Trip + Stop+De-excite
F6	Shutdown
F7	Trip MB
F8	Trip MB/GB

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It is also possible to configure the parameters by using the PC utility software. It will be possible to make the same configurations as described above.

By using the PC utility software, extra functionality is available. For all the protections it is possible to make an automatic acknowledgement of the alarm.

Parameter "-P>" 1" (Channel 1000)

**Setpoint :**

-200      -5 %      0

**Timer :**

0,1      10 sec      100

**Fail class :** Trip+stop+de-excite

**Output A** Not used

**Output B** Not used

**Password level :** customer

Enable  
 High Alarm  
 Inverse proportional

Auto acknowledge  
Inhibits...

**Commissioning**

**Actual value : 0 %**

**Actual timer value**

0 sec      10 sec

Write      OK      Cancel

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## 2.2 - Protection parameters

### 2.2.1 - Reverse power and overcurrent protection

No.	Setting	Min. Max.	Factory setting	Ref.	Description	
<b>1000 Reverse power 1</b>						
1001	-P> 1	Set point	-200.0 % 0.0 %	-5.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the reverse power has been continuously above the programmed value during the programmed delay.
1002	-P> 1	Timer	0.1 s 100.0 s	10.0 s		
1003	-P> 1	Relay output A	Not used Limits	Not used		
1004	-P> 1	Relay output B	Not used Limits	Not used		
1005	-P> 1	Enable	OFF ON	ON		
1006	-P> 1	Fail class	F1...F8	Trip GB (F3)		
<b>1030 Overcurrent 1</b>						
1031	I> 1	Set point	50.0 % 200.0 %	115.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the reverse power has been continuously above the programmed value during the programmed delay.
1032	I> 1	Timer	0.1 s 3200.0 s	10.0 s		
1033	I> 1	Relay output A	Not used Limits	Not used		
1034	I> 1	Relay output B	Not used Limits	Not used		
1035	I> 1	Enable	OFF ON	ON		
1036	I> 1	Fail class	F1...F8	Warning (F2)		
<b>1040 Overcurrent 2</b>						
1041	I> 2	Set point	50.0 % 200.0 %	120.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the reverse power has been continuously above the programmed value during the programmed delay.
1042	I> 2	Timer	0.1 s 3200.0 s	5.0 s		
1043	I> 2	Relay output A	Not used Limits	Not used		
1044	I> 2	Relay output B	Not used Limits	Not used		

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No.	Setting		Min. Max.	Factory setting	Ref.	Description
1045	I> 2	Enable	OFF ON	ON		
1046	I> 2	Fail class	F1...F8	Trip GB (F3)		
<b>1050 Overcurrent 3</b>						
1051	I> 3	Set point	50.0 % 200.0 %	115.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the reverse power has been continuously above the programmed value during the programmed delay.
1052	I> 3	Timer	0.1 s 3200.0 s	10.0 s		
1053	I> 3	Relay output A	Not used Limits	Not used		
1054	I> 3	Relay output B	Not used Limits	Not used		
1055	I> 3	Enable	OFF ON	ON		
1056	I> 3	Fail class	F1...F8	Trip GB (F3)		
<b>1130 Fast overcurrent 1</b>						
1131	I>> 1	Set point	150.0 % 350.0 %	150.0 %	Installation and maintenance manual ref. 5304	The alarm settings relate to the nominal current setting. The alarm and fail class are activated when the current has been continuously above the programmed value during the programmed delay.
1132	I>> 1	Timer	0.0 s 100.0 s	2.0 s		
1133	I>> 1	Relay output A	Not used Limits	Not used		
1134	I>> 1	Relay output B	Not used Limits	Not used		
1135	I>> 1	Enable	OFF ON	OFF		
1136	I>> 1	Fail class	F1...F8	Trip GB (F3)		

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#### 2.2.2 - Voltage protections

No.	Setting	Min. Max.	Factory setting	Ref.	Description
<b>1150 G overvoltage 1</b>					
1151	G U>1	Set point	100.0 % 120.0 %	103.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the voltage has been continuously above the programmed value during the programmed delay.
1152	G U>1	Timer	0.1 s 100.0 s	10.0 s	
1153	G U>1	Relay output A	Not used Limits	Not used	
1154	G U>1	Relay output B	Not used Limits	Not used	
1155	G U>1	Enable	OFF ON	OFF	
1156	G U>1	Fail class	F1...F8	Warning (F2)	
<b>1160 G overvoltage 2</b>					
1161	G U>2	Set point	100.0 % 120.0 %	105.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the voltage has been continuously above the programmed value during the programmed delay.
1162	G U>2	Timer	0.1 s 100.0 s	5.0 s	
1163	G U>2	Relay output A	Not used Limits	Not used	
1164	G U>2	Relay output B	Not used Limits	Not used	
1165	G U>2	Enable	OFF ON	OFF	
1166	G U>2	Fail class	F1...F8	Warning (F2)	
<b>1170 G undervoltage 1</b>					
1171	G U<1	Set point	40.0 % 100.0 %	97.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the voltage has been continuously under the programmed value during the programmed delay.
1172	G U<1	Timer	0.1 s 100.0 s	10.0 s	
1173	G U<1	Relay output A	Not used Limits	Not used	
1174	G U<1	Relay output B	Not used Limits	Not used	



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No.	Setting		Min. Max.	Factory setting	Ref.	Description
1175	G U<1	Enable	OFF ON	OFF		
1176	G U<1	Fail class	F1...F8	Warning (F2)		
<b>1180 G undervoltage 2</b>						
1181	G U<2	Set point	40.0 % 100.0 %	95.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the reverse power has been continuously above the programmed value during the programmed delay.
1182	G U<2	Timer	0.1 s 100.0 s	5.0 s		
1183	G U<2	Relay output A	Not used Limits	Not used		
1184	G U<2	Relay output B	Not used Limits	Not used		
1185	G U<2	Enable	OFF ON	OFF		
1186	G U<2	Fail class	F1...F8	Warning (F2)		

### 2.2.3 - Frequency protections

Frequency settings relate to the nominal frequency setting.

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>1210 G overfrequency 1</b>						
1211	G f>1	Set point	100.0 % 120.0 %	103.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the frequency has been continuously above the programmed value during the programmed delay. Frequency settings relate to nominal frequency setting.
1212	G f>1	Timer	0.2 s 100.0 s	10.0 s		
1213	G f>1	Relay output A	Not used Limits	Not used		
1214	G f>1	Relay output B	Not used Limits	Not used		
1215	G f>1	Enable	OFF ON	OFF		
1216	G f>1	Fail class	F1...F8	Warning (F2)		

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### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Ref.	Description
<b>1220 G overfrequency 2</b>					
1221	G f>2	Set point	100.0 % 120.0 %	105.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the frequency has been continuously above the programmed value during the programmed delay.
1222	G f>2	Timer	0.2 s 100.0 s	5.0 s	
1223	G f>2	Relay output A	Not used Limits	Not used	
1224	G f>2	Relay output B	Not used Limits	Not used	
1225	G f>2	Enable	OFF ON	OFF	
1226	G f>2	Fail class	F1...F8	Warning (F2)	
<b>1240 G underfrequency 1</b>					
1241	G f<1	Set point	80.0 % 100.0 %	97.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the frequency has been continuously under the programmed value during the programmed delay.
1242	G f<1	Timer	0.2 s 100.0 s	10.0 s	
1243	G f<1	Relay output A	Not used Limits	Not used	
1244	G f<1	Relay output B	Not used Limits	Not used	
1245	G f<1	Enable	OFF ON	OFF	
1246	G f<1	Fail class	F1...F8	Warning (F2)	
<b>1250 G underfrequency 2</b>					
1251	G f<2	Set point	80.0 % 100.0 %	95.0 %	Installation and maintenance manual ref. 5304  The alarm and fail class are activated when the frequency has been continuously under the programmed value during the programmed delay.
1252	G f<2	Timer	0.2 s 100.0 s	5.0 s	
1253	G f<2	Relay output A	Not used Limits	Not used	
1254	G f<2	Relay output B	Not used Limits	Not used	
1255	G f<2	Enable	OFF ON	OFF	
1256	G f<2	Fail class	F1...F8	Warning (F2)	

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#### 2.2.4 - Busbar voltage protections

Voltage settings relate to the nominal voltage setting.

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>1270 Busbar overvoltage 1</b>						
1271	BB U>1	Set point	100.0 % 120.0 %	103.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the voltage has been continuously above the programmed value during the programmed delay.
1272	BB U>1	Timer	0.00 s 99.99 s	10.0 s		
1273	BB U>1	Relay output A	Not used Limits	Not used		
1274	BB U>1	Relay output B	Not used Limits	Not used		
1275	BB U>1	Enable	OFF ON	OFF		
1276	BB U>1	Fail class	F1...F8	Warning (F2)		
<b>1280 Busbar overvoltage 2</b>						
1281	BB U>2	Set point	100.0 % 120.0 %	105.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the voltage has been continuously above the programmed value during the programmed delay.
1282	BB U>2	Timer	0.00 s 99.99 s	10.00 s		
1283	BB U>2	Relay output A	Not used Limits	Not used		
1284	BB U>2	Relay output B	Not used Limits	Not used		
1285	BB U>2	Enable	OFF ON	OFF		
1286	BB U>2	Fail class	F1...F8	Warning (F2)		
<b>1300 Busbar undervoltage 1</b>						
1301	BB U<1	Set point	40.0 % 100.0 %	97.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the voltage has been continuously under the programmed value during the programmed delay.
1302	BB U<1	Timer	0.00 s 99.99 s	10.00 s		
1303	BB U<1	Relay output A	Not used Limits	Not used		
1304	BB U<1	Relay output B	Not used Limits	Not used		

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No.	Setting		Min. Max.	Factory setting	Ref.	Description
1305	BB U<1	Enable	OFF ON	OFF		
1306	BB U<1	Fail class	F1...F8	Warning (F2)		
<b>1310 Busbar undervoltage 2</b>						
1311	BB U<2	Set point	40.0 % 100.0 %	95.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the voltage has been continuously under the programmed value during the programmed delay.
1312	BB U<2	Timer	0.00 s 99.99 s	5.0 s		
1313	BB U<2	Relay output A	Not used Limits	Not used		
1314	BB U<2	Relay output B	Not used Limits	Not used		
1315	BB U<2	Enable	OFF ON	OFF		
1316	BB U<2	Fail class	F1...F8	Warning (F2)		

### 2.2.5 - Busbar frequency protections

Frequency settings relate to the nominal frequency setting.

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>1350 Busbar overfrequency 1</b>						
1351	BB f>1	Set point	100.0 % 120.0 %	103.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the frequency has been continuously above the programmed value during the programmed delay.
1352	BB f>1	Timer	0.00 s 99.99 s	10.00 s		
1353	BB f>1	Relay output A	Not used Limits	Not used		
1354	BB f>1	Relay output B	Not used Limits	Not used		
1355	BB f>1	Enable	OFF ON	OFF		
1356	BB f>1	Fail class	F1...F8	Warning (F2)		

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No.	Setting	Min. Max.	Factory setting	Ref.	Description	
<b>1360 Busbar overfrequency 2</b>						
1361	BB f>2	Set point	100.0 % 120.0 %	105.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the frequency has been continuously above the programmed value during the programmed delay.
1362	BB f>2	Timer	0.00 s 99.99 s	5.00 s		
1363	BB f>2	Relay output A	Not used Limits	Not used		
1364	BB f>2	Relay output B	Not used Limits	Not used		
1365	BB f>2	Enable	OFF ON	OFF		
1366	BB f>2	Fail class	F1...F8	Warning (F2)		
<b>1380 Busbar underfrequency 1</b>						
1381	BB f<1	Set point	80.0 % 100.0 %	97.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the frequency has been continuously under the programmed value during the programmed delay.
1382	BB f<1	Timer	0.00 s 99.99 s	10.00 s		
1383	BB f<1	Relay output A	Not used Limits	Not used		
1384	BB f<1	Relay output B	Not used Limits	Not used		
1385	BB f<1	Enable	OFF ON	OFF		
1386	BB f<1	Fail class	F1...F8	Warning (F2)		
<b>1390 Busbar underfrequency 2</b>						
1391	BB f<2	Set point	80.0 % 100.0 %	95.0 %	Installation and maintenance manual ref. 5304	The alarm and fail class are activated when the frequency has been continuously under the programmed value during the programmed delay.
1392	BB f<2	Timer	0.00 s 99.99 s	5.0 s		
1393	BB f<2	Relay output A	Not used Limits	Not used		
1394	BB f<2	Relay output B	Not used Limits	Not used		
1395	BB f<2	Enable	OFF ON	OFF		
1396	BB f<2	Fail class	F1...F8	Warning (F2)		

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#### 2.2.6 - Overload protections

No.	Setting	Min. Max.	Factory setting	Ref.	Description
<b>1450 Overload 1</b>					
1451	P> 1	Set point	-200.0 % 200.0 %	100.0 %	Installation and maintenance manual ref. 5304
1452	P> 1	Timer	0.1 s 3200.0 s	10.0 s	
1453	P> 1	Relay output A	Not used Limits	Not used	
1454	P> 1	Relay output B	Not used Limits	Not used	
1455	P> 1	Enable	OFF ON	OFF	
1456	P> 1	Fail class	F1...F8	Warning (F2)	
<b>1460 Overload 2</b>					
1461	P> 2	Set point	-200.0 % 200.0 %	110.0 %	Installation and maintenance manual ref. 5304
1462	P> 2	Timer	0.1 s 3200.0 s	5.0 s	
1463	P> 2	Relay output A	Not used Limits	Not used	
1464	P> 2	Relay output B	Not used Limits	Not used	
1465	P> 2	Enable	OFF ON	OFF	
1466	P> 2	Fail class	F1...F8	Trip GB (F3)	

#### 2.2.7 - Undervoltage and reactive power low

No.	Setting	Min. Max.	Factory setting	Ref.	Description
<b>1980 GB/MB external trip</b>					
1981	GB ext. trip	Enable	OFF ON	ON	Installation and maintenance manual ref. 5304
1982	GB ext. trip	Fail class	F1...F8	Warning (F2)	
1983	MB ext. trip	Enable	OFF ON	ON	
1984	MB ext. trip	Fail class	F1...F8	Warning (F2)	

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#### 2.3 - Breaker control parameters

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>2110 Sync. blackout</b>						
2111	Sync. blackout	dfMax.	0.0 Hz 5.0 Hz	3.0 Hz	Installation and maintenance manual ref. 5304	Settings are accepted limits for closing of the breaker, referring to nominal frequency and voltage.
2112	Sync. blackout	dUMax.	2 % 10 %	5 %		
<b>2150 Phase sequence error</b>						
2151	Phase seq error	Relay output A	Not used Limits	Not used	Installation and maintenance manual ref. 5304	Prior to closing a breaker, the unit checks that the phase sequence is correct, depending on the chosen phase direction in parameter 2154: "Phase rotation". If it is incorrect (reversed), an alarm will be issued and the breaker in question will not be closed.
2152	Phase seq error	Relay output B	Not used Limits	Not used		
2153	Phase seq error	Fail class	F1...F8	Block (F1)		
2154	Phase rotation	Set point	L1L2L3 L1L3L2	L1L2L3		
<b>2160 GB open failure</b>						
2161	GB open fail	Timer	1.0 s 10.0 s	2.0 s	Installation and maintenance manual ref. 5304	The breaker open failure will occur if the unit has transmitted a breaker open signal and the breaker feedback has not changed position from ON to OFF within the time delay.
2162	GB open fail	Relay output A	Not used Limits	Not used		
2163	GB open fail	Relay output B	Not used Limits	Not used		
2164	GB open fail	Enable	OFF ON	ON		
2165	GB open fail	Fail class	F1...F8	Warning (F2)		
<b>2170 GB breaker close failure</b>						
2171	GB close fail	Timer	1.0 s 5.0 s	2.0 s	Installation and maintenance manual ref. 5304	The breaker close failure will occur if the unit has transmitted a breaker close signal and the breaker feedback has not changed position from OFF to ON within the time delay.
2172	GB close fail	Relay output A	Not used Limits	Not used		
2173	GB close fail	Relay output B	Not used Limits	Not used		

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No.	Setting		Min. Max.	Factory setting	Ref.	Description
2174	GB close fail	Enable	OFF ON	ON		
2175	GB close fail	Fail class	F1...F8	Warning (F2)		
<b>2180 GB breaker position failure</b>						
2181	GB pos fail	Timer	1.0 s 5.0 s	1.0 s	Installation and maintenance manual ref. 5304	This alarm will occur if the breaker feedbacks for ON and OFF are both missing or active for more than the time delay.
2182	GB pos fail	Relay output A	Not used Limits	Not used		
2183	GB pos fail	Relay output B	Not used Limits	Not used		
2184	GB pos fail	Enable	OFF ON	ON		
2185	GB pos fail	Fail class	F1...F8	Warning (F2)		
<b>2200 MB open failure</b>						
2201	MB open fail	Timer	1.0 s 10.0 s	2.0 s	Installation and maintenance manual ref. 5304	The breaker open failure will occur if the unit has transmitted a breaker open signal and the breaker feedback has not changed position from ON to OFF within the time delay.
2202	MB open fail	Relay output A	Not used Limits	Not used		
2203	MB open fail	Relay output B	Not used Limits	Not used		
2204	MB open fail	Enable	OFF ON	ON		
2205	MB open fail	Fail class	F1...F8	Warning (F2)		
<b>2210 MB close failure</b>						
2211	MB close fail	Timer	1.0 s 5.0 s	2.0 s	Installation and maintenance manual ref. 5304	The breaker close failure will occur if the unit has transmitted a breaker close signal and the breaker feedback has not changed position from OFF to ON within the time delay.
2212	MB close fail	Relay output A	Not used Limits	Not used		
2213	MB close fail	Relay output B	Not used Limits	Not used		
2214	MB close fail	Enable	OFF ON	ON		
2215	MB close fail	Fail class	F1...F8	Warning (F2)		



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No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>2220 MB position failure</b>						
2221	MB pos fail	Timer	1.0 s 5.0 s	1.0 s	Installation and maintenance manual ref. 5304	This alarm will occur if the breaker feedbacks for ON and OFF are both missing or active for more than the time delay.
2222	MB pos fail	Relay output A	Not used Limits	Not used		
2223	MB pos fail	Relay output B	Not used Limits	Not used		
2224	MB pos fail	Enable	OFF ON	ON		
2225	MB pos fail	Fail class	F1...F8	Warning (F2)		

No.	Setting		Min. setting	Max. setting	Factory setting
<b>2770 EIC control</b>					
2771	EIC control	Droop	0.0 %	25.0 %	0.0 %
2772	EIC control	Scania rpm	User 1500 rpm 1800 rpm Low Idle		User
2773	EIC control	Cummins gain	0.00	10.00	5.00
<b>2790 EIC speed demand switch</b>					
2791	EIC speed demand switch	Local normal sw.	Analogue CAN UpDown ECU UpDown CAN Analogue ECU Analogue ECU relative Frequency		Analogue CAN
2792	EIC speed demand switch	Local emergency sw.			
2793	EIC speed demand switch	Remote normal sw.			
2794	EIC speed demand switch	Remote emergency sw.			

## ControlReg series

### Alarms and Parameters list

## 2.4 - Input/output parameters, binary input setup

### 2.4.1 - Digital inputs 14-19 setup

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>3400 Digital input 14</b>						
3401	Wire fail 14	Enable	OFF	OFF	Installation and maintenance manual ref. 5304	The input is configurable and can have different functions in different units. (Only available if multi-input 14 is configured to «binary» in menu 10980).
3402	Dig. input 14	Timer	0.0 s 100.0 s	10.0 s		
3403	Dig. input 14	Relay output A	Not used Limits	Not used		
3404	Dig. input 14	Relay output B	Not used Limits	Not used		
3405	Dig. input 14	Enable	OFF ON	OFF		
3406	Dig. input 14	Fail class	F1...F8	Warning (F2)		

### 3410 Digital input 15

The same settings apply to inputs 15.

Only available if multi-input 15 is configured to «binary» in menu 10990

### 3420 Digital input 16

The same settings apply to inputs 16.

Only available if multi-input 16 is configured to «binary» in menu 11000

### 3430 Digital input 17

The same settings apply to inputs 17.

Only available if multi-input 17 is configured to «binary» in menu 11300

### 3440 Digital input 18

The same settings apply to inputs 18.

Only available if multi-input 18 is configured to «binary» in menu 11310

### 3450 Digital input 19

The same settings apply to inputs 19.

Only available if multi-input 19 is configured to «binary» in menu 11160

## ControlReg series

### Alarms and Parameters list

#### 2.4.2 - Emergency stop

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>3490 Emergency stop</b>						
3491	Emer. stop	Timer	0.0 s 60.0 s	0.0 s	Installation and maintenance manual ref. 5304	Emergency stop input is intended for a normally closed contact.
3492	Emer. stop	Relay output A	Not used Limits	Not used		
3493	Emer. stop	Relay output B	Not used Limits	Not used		
3494	Emer. stop	Enable	OFF ON	ON		
3495	Emer. stop	Fail class	F1...F8	Shutdown (F5)		

#### 2.4.3 - M-Logic alarm 1-5 setup

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>3570 Mlogic alarm 1</b>						
3570	Mlogic alarm 1	Timer	0.0 s 100.0 s	10.0 s	Installation and maintenance manual ref. 5304	The input is configurable.
3571	Mlogic alarm 1	Relay output A	Not used Limits	Not used		
3572	Mlogic alarm 1	Relay output B	Not used Limits	Not used		
3573	Mlogic alarm 1	Enable	OFF ON	OFF		
3574	Mlogic alarm 1	Fail class	F1...F8	Warning (F2)		
3575	Mlogic alarm 1	High alarm	OFF ON	ON		

The same settings apply to alarm inputs 2-5, menus 3580 to 3610.

## ControlReg series

### Alarms and Parameters list

## 2.5 - Analogue input setup

### 2.5.1 - Multi-input no. 14

The available menus for multi-input no. 14 depend on the input type configured in the PC utility software (menu 10980).

No.	Setting		Min. Max.	Factory setting	Ref.	Description
<b>4120 4-20 mA 14.1</b>						
4121	4-20 mA 14.1	Set point	4 mA 20 mA	10 mA	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as '4-20 mA'.
4122	4-20 mA 14.1	Timer	0.0 s 999.0 s	120.0 s		
4123	4-20 mA 14.1	Relay output A	Not used Limits	Not used		
4124	4-20 mA 14.1	Relay output B	Not used Limits	Not used		
4125	4-20 mA 14.1	Enable	OFF ON	OFF		
4126	4-20 mA 14.1	Fail class	F1...F8	Warning (F2)		
<b>4130 4-20 mA 14.2</b>						
4131	4-20 mA 14.2	Set point	4 mA 20 mA	10 mA	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as '4-20 mA'.
4132	4-20 mA 14.2	Timer	0.0 s 999.0 s	120.0 s		
4133	4-20 mA 14.2	Relay output A	Not used Limits	Not used		
4134	4-20 mA 14.2	Relay output B	Not used Limits	Not used		
4135	4-20 mA 14.2	Enable	OFF ON	OFF		
4136	4-20 mA 14.2	Fail class	F1...F8	Warning (F2)		
<b>4160 Pt100/Pt1000 14.1</b>						
4161	PT 14.1	Set point	-49 482	80	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4162	PT 14.1	Timer	0.0 s 999.0 s	5.0 s		
4163	PT 14.1	Relay output A	Not used Limits	Not used		

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Ref.	Description
4164	PT 14.1	Relay output B	Not used Limits	Not used		
4165	PT 14.1	Enable	OFF ON	OFF		
4166	PT 14.1	Fail class	F1...F8	Warning (F2)		
4167	PT 14.1	Offset	0.0 Ohm 5.0 Ohm	0.0 Ohm		
<b>4170 Pt100/Pt1000 14.2</b>						
4171	PT 14.2	Set point	-49 482	80	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4172	PT 14.2	Timer	0.0 s 999.0 s	10.0 s		
4173	PT 14.2	Relay output A	Not used Limits	Not used		
4174	PT 14.2	Relay output B	Not used Limits	Not used		
4175	PT 14.2	Enable	OFF ON	OFF		
4176	PT 14.2	Fail class	F1...F8	Warning (F2)		
<b>4180 Resistance measurement input, oil pressure 14.1</b>						
4181	RMI oil 14.1	Set point	0.0 145.0	2.0	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4182	RMI oil 14.1	Timer	0.0 s 999.0 s	5.0 s		
4183	RMI oil 14.1	Relay output A	Not used Limits	Not used		
4184	RMI oil 14.1	Relay output B	Not used Limits	Not used		
4185	RMI oil 14.1	Enable	OFF ON	OFF		
4186	RMI oil 14.1	Fail class	F1...F8	Warning (F2)		

## ControlReg series

### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Ref.	Description
<b>4190 Resistance measurement input, oil pressure 14.2</b>					
4191	RMI oil 14.2	Set point	0.0 145.0	1.0	Installation and maintenance manual ref. 5304  The multi-input 14 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4192	RMI oil 14.2	Timer	0.0 s 999.0 s	5.0 s	
4193	RMI oil 14.2	Relay output A	Not used Limits	Not used	
4194	RMI oil 14.2	Relay output B	Not used Limits	Not used	
4195	RMI oil 14.2	Enable	OFF ON	OFF	
4196	RMI oil 14.2	Fail class	F1...F8	Shutdown (F5)	
<b>4200 Resistance measurement input, water temperature 14.1</b>					
4201	RMI water 14.1	Set point	-49 482	100	Installation and maintenance manual ref. 5304  The multi-input 14 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4202	RMI water 14.1	Timer	0.0 s 999.0 s	5.0 s	
4203	RMI water 14.1	Relay output A	Not used Limits	Not used	
4204	RMI water 14.1	Relay output B	Not used Limits	Not used	
4205	RMI water 14.1	Enable	OFF ON	OFF	
4206	RMI water 14.1	Fail class	F1...F8	Warning (F2)	
<b>4210 Resistance measurement input, water temperature 14.2</b>					
4211	RMI water 14.2	Set point	-49 482	110	Installation and maintenance manual ref. 5304  The multi-input 14 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4212	RMI water 14.2	Timer	0.0 s 999.0 s	5.0 s	
4213	RMI water 14.2	Relay output A	Not used Limits	Not used	
4214	RMI water 14.2	Relay output B	Not used Limits	Not used	
4215	RMI water 14.2	Enable	OFF ON	OFF	

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Ref.	Description
4216	RMI water 14.2	Fail class	F1...F8	Trip + Stop (F4)		
<b>4220 Resistance measurement input, fuel level 14.1</b>						
4221	RMI fuel 14.1	Set point	0 % 100 %	10 %	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as 'RMI fuel level'.
4222	RMI fuel 14.1	Timer	0.0 s 999.0 s	10.0 s		
4223	RMI fuel 14.1	Relay output A	Not used Limits	Not used		
4224	RMI fuel 14.1	Relay output B	Not used Limits	Not used		
4225	RMI fuel 14.1	Enable	OFF ON	OFF		
4226	RMI fuel 14.1	Fail class	F1...F8	Warning (F2)		
<b>4230 Resistance measurement input, fuel level 14.2</b>						
4231	RMI fuel 14.2	Set point	0 % 100 %	5 %	Installation and maintenance manual ref. 5304	The multi-input 14 has been configured as 'RMI fuel level'.
4232	RMI fuel 14.2	Timer	0.0 s 999.0 s	10.0 s		
4233	RMI fuel 14.2	Relay output A	Not used Limits	Not used		
4234	RMI fuel 14.2	Relay output B	Not used Limits	Not used		
4235	RMI fuel 14.2	Enable	OFF ON	OFF		
4236	RMI fuel 14.2	Fail class	F1...F8	Warning (F2)		
<b>4240 Wire fail 14</b>						
4241	W. fail 14	Relay output A	Not used Limits	Not used	Installation and maintenance manual ref. 5304	The wire break fault detection is activated.
4242	W. fail 14	Relay output B	Not used Limits	Not used		
4243	W. fail 14	Enable	OFF ON	OFF		
4244	W. fail 14	Fail class	F1...F8	Warning (F2)		

## ControlReg series

### Alarms and Parameters list

#### 2.5.2 - Multi-input no. 15

The available menus for multi-input no. 15 depend on the input type configured in the PC utility software (menu 10990).

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4250 4-20 mA 15.1</b>							
4251	4-20 mA 15.1	Set point	4 mA 20 mA	10 mA		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as '4-20 mA'.
4252	4-20 mA 15.1	Timer	0.0 s 999.0 s	120.0 s			
4253	4-20 mA 15.1	Relay output A	Not used Limits	Not used			
4254	4-20 mA 15.1	Relay output B	Not used Limits	Not used			
4255	4-20 mA 15.1	Enable	OFF ON	OFF			
4256	4-20 mA 15.1	Fail class	F1...F8	Warning (F2)			
<b>4260 4-20 mA 15.2</b>							
4261	4-20 mA 15.2	Set point	4 mA 20 mA	10 mA		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as '4-20 mA'.
4262	4-20 mA 15.2	Timer	0.0 s 999.0 s	120.0 s			
4263	4-20 mA 15.2	Relay output A	Not used Limits	Not used			
4264	4-20 mA 15.2	Relay output B	Not used Limits	Not used			
4265	4-20 mA 15.2	Enable	OFF ON	OFF			
4266	4-20 mA 15.2	Fail class	F1...F8	Warning (F2)			
<b>4290 Pt100/Pt1000 15.1</b>							
4291	PT 15.1	Set point	-49 482	80		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4292	PT 15.1	Timer	0.0 s 999.0 s	5.0 s			
4293	PT 15.1	Relay output A	Not used Limits	Not used			



## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4294	PT 15.1	Relay output B	Not used Limits	Not used			
4295	PT 15.1	Enable	OFF ON	OFF			
4296	PT 15.1	Fail class	F1...F8	Warning (F2)			
4297	PT 15.1	Offset	0.0 Ohm 5.0 Ohm	0.0 Ohm			
<b>4300 Pt100/Pt1000 15.2</b>							
4301	PT 15.2	Set point	-49 482	80		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4302	PT 15.2	Timer	0.0 s 999.0 s	10.0 s			
4303	PT 15.2	Relay output A	Not used Limits	Not used			
4304	PT 15.2	Relay output B	Not used Limits	Not used			
4305	PT 15.2	Enable	OFF ON	OFF			
4306	PT 15.2	Fail class	F1...F8	Warning (F2)			
<b>4310 Resistance measurement input, oil pressure 15.1</b>							
4311	RMI oil 15.1	Set point	0.0 145.0	2.0		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4312	RMI oil 15.1	Timer	0.0 s 999.0 s	5.0 s			
4313	RMI oil 15.1	Relay output A	Not used Limits	Not used			
4314	RMI oil 15.1	Relay output B	Not used Limits	Not used			
4315	RMI oil 15.1	Enable	OFF ON	OFF			
4316	RMI oil 15.1	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>4320 Resistance measurement input, oil pressure 15.2</b>						
4321	RMI oil 15.2	Set point	0.0 145.0	1.0	Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4322	RMI oil 15.2	Timer	0.0 s 999.0 s	5.0 s		
4323	RMI oil 15.2	Relay output A	Not used Limits	Not used		
4324	RMI oil 15.2	Relay output B	Not used Limits	Not used		
4325	RMI oil 15.2	Enable	OFF ON	OFF		
4326	RMI oil 15.2	Fail class	F1...F8	Shutdown (F5)		
<b>4330 Resistance measurement input, water temperature 15.1</b>						
4331	RMI water 15.1	Set point	-49 482	100	Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4332	RMI water 15.1	Timer	0.0 s 999.0 s	5.0 s		
4333	RMI water 15.1	Relay output A	Not used Limits	Not used		
4334	RMI water 15.1	Relay output B	Not used Limits	Not used		
4335	RMI water 15.1	Enable	OFF ON	OFF		
4336	RMI water 15.1	Fail class	F1...F8	Warning (F2)		
<b>4340 Resistance measurement input, water temperature 15.2</b>						
4341	RMI water 15.2	Set point	-49 482	110	Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4342	RMI water 15.2	Timer	0.0 s 999.0 s	5.0 s		
4343	RMI water 15.2	Relay output A	Not used Limits	Not used		
4344	RMI water 15.2	Relay output B	Not used Limits	Not used		
4345	RMI water 15.2	Enable	OFF ON	OFF		

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4346	RMI water 15.2	Fail class	F1...F8	Trip + Stop (F4)			
<b>4350 Resistance measurement input, fuel level 15.1</b>							
4351	RMI fuel 15.1	Set point	0 % 100 %	10 %		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI fuel level'.
4352	RMI fuel 15.1	Timer	0.0 s 999.0 s	10.0 s			
4353	RMI fuel 15.1	Relay output A	Not used Limits	Not used			
4354	RMI fuel 15.1	Relay output B	Not used Limits	Not used			
4555	RMI fuel 15.1	Enable	OFF ON	OFF			
4356	RMI fuel 15.1	Fail class	F1...F8	Warning (F2)			
<b>4360 Resistance measurement input, fuel level 15.2</b>							
4361	RMI fuel 15.2	Set point	0 % 100 %	5 %		Installation and maintenance manual ref. 5304	The multi-input 15 has been configured as 'RMI fuel level'.
4362	RMI fuel 15.2	Timer	0.0 s 999.0 s	10.0 s			
4363	RMI fuel 15.2	Relay output A	Not used Limits	Not used			
4364	RMI fuel 15.2	Relay output B	Not used Limits	Not used			
4365	RMI fuel 15.2	Enable	OFF ON	OFF			
4366	RMI fuel 15.2	Fail class	F1...F8	Warning (F2)			
<b>4370 Wire fail 15</b>							
4371	W. fail 15	Relay output A	Not used Limits	Not used		Installation and maintenance manual ref. 5304	The wire break fault detection is activated.
4372	W. fail 15	Relay output B	Not used Limits	Not used			
4373	W. fail 15	Enable	OFF ON	OFF			
4374	W. fail 15	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

#### 2.5.3 - Multi-input no. 16

The available menus for multi-input no. 16 depend on the input type configured in the PC utility software (menu 11000).

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4380 4-20 mA 16.1</b>							
4381	4-20 mA 16.1	Set point	4 mA 20 mA	10 mA		Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as '4-20 mA'.
4382	4-20 mA 16.1	Timer	0.0 s 999.0 s	120.0 s			
4383	4-20 mA 16.1	Relay output A	Not used Limits	Not used			
4384	4-20 mA 16.1	Relay output B	Not used Limits	Not used			
4385	4-20 mA 16.1	Enable	OFF ON	OFF			
4386	4-20 mA 16.1	Fail class	F1...F8	Warning (F2)			
<b>4390 4-20 mA 16.2</b>							
4391	4-20 mA 16.2	Set point	4 mA 20 mA	10 mA		Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as '4-20 mA'.
4392	4-20 mA 16.2	Timer	0.0 s 999.0 s	120.0 s			
4393	4-20 mA 16.2	Relay output A	Not used Limits	Not used			
4394	4-20 mA 16.2	Relay output B	Not used Limits	Not used			
4395	4-20 mA 16.2	Enable	OFF ON	OFF			
4396	4-20 mA 16.2	Fail class	F1...F8	Warning (F2)			
<b>4420 Pt100/Pt1000 16.1</b>							
4421	PT 16.1	Set point	-49 482	80		Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4422	PT 16.1	Timer	0.0 s 999.0 s	5.0 s			
4423	PT 16.1	Relay output A	Not used Limits	Not used			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4424	PT 16.1	Relay output B	Not used Limits	Not used			
4425	PT 16.1	Enable	OFF ON	OFF			
4426	PT 16.1	Fail class	F1...F8	Warning (F2)			
4427	PT 16.1	Offset	0.0 Ohm 5.0 Ohm	0.0 Ohm			
<b>4430 Pt100/Pt1000 16.2</b>							
4431	PT 16.2	Set point	-49 482	80		Installation and mainte- nance manual ref. 5304	The multi-input 16 has been configured as 'Pt100' or 'Pt1000'. Pt100/Pt1000 set point can be in deg. C or F (menu 10970).
4432	PT 16.2	Timer	0.0 s 999.0 s	10.0 s			
4433	PT 16.2	Relay output A	Not used Limits	Not used			
4434	PT 16.2	Relay output B	Not used Limits	Not used			
4435	PT 16.2	Enable	OFF ON	OFF			
4436	PT 16.2	Fail class	F1...F8	Warning (F2)			
<b>4440 Resistance measurement input, oil pressure 16.1</b>							
4441	RMI oil 16.1	Set point	0.0 145.0	2.0		Installation and mainte- nance manual ref. 5304	The multi-input 16 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4442	RMI oil 16.1	Timer	0.0 s 999.0 s	5.0 s			
4443	RMI oil 16.1	Relay output A	Not used Limits	Not used			
4444	RMI oil 16.1	Relay output B	Not used Limits	Not used			
4445	RMI oil 16.1	Enable	OFF ON	OFF			
4446	RMI oil 16.1	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>4450 Resistance measurement input, oil pressure 16.2</b>						
4451	RMI oil 16.2	Set point	0.0 145.0	1.0	Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'RMI oil pressure'. Oil pressure set point can be in Bar or PSI (menu 10970).
4452	RMI oil 16.2	Timer	0.0 s 999.0 s	5.0 s		
4453	RMI oil 16.2	Relay output A	Not used Limits	Not used		
4454	RMI oil 16.2	Relay output B	Not used Limits	Not used		
4455	RMI oil 16.2	Enable	OFF ON	OFF		
4456	RMI oil 16.2	Fail class	F1...F8	Shutdown (F5)		
<b>4460 Resistance measurement input, water temperature 16.1</b>						
4461	RMI water 16.1	Set point	-49 482	100	Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4462	RMI water 16.1	Timer	0.0 s 999.0 s	5.0 s		
4463	RMI water 16.1	Relay output A	Not used Limits	Not used		
4464	RMI water 16.1	Relay output B	Not used Limits	Not used		
4465	RMI water 16.1	Enable	OFF ON	OFF		
4466	RMI water 16.1	Fail class	F1...F8	Warning (F2)		
<b>4470 Resistance measurement input, water temperature 16.2</b>						
4471	RMI water 16.2	Set point	-49 482	110	Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'RMI water temperature'. Water temperature set point can be in deg. C or F (menu 10970).
4472	RMI water 16.2	Timer	0.0 s 999.0 s	5.0 s		
4473	RMI water 16.2	Relay output A	Not used Limits	Not used		
4474	RMI water 16.2	Relay output B	Not used Limits	Not used		
4475	RMI water 16.2	Enable	OFF ON	OFF		

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4476	RMI water 16.2	Fail class	F1...F8	Trip + Stop (F4)			
<b>4480 Resistance measurement input, fuel level 16.1</b>							
4481	RMI fuel 16.1	Set point	0 % 100 %	10 %		Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'RMI fuel level'.
4482	RMI fuel 16.1	Timer	0.0 s 999.0 s	10.0 s			
4483	RMI fuel 16.1	Relay output A	Not used Limits	Not used			
4484	RMI fuel 16.1	Relay output B	Not used Limits	Not used			
4485	RMI fuel 16.1	Enable	OFF ON	OFF			
4486	RMI fuel 16.1	Fail class	F1...F8	Warning (F2)			
<b>4490 Resistance measurement input, fuel level 16.2</b>							
4491	RMI fuel 16.2	Set point	0 % 100 %	5 %		Installation and maintenance manual ref. 5304	The multi-input 16 has been configured as 'RMI fuel level'.
4492	RMI fuel 16.2	Timer	0.0 s 999.0 s	10.0 s			
4493	RMI fuel 16.2	Relay output A	Not used Limits	Not used			
4494	RMI fuel 16.2	Relay output B	Not used Limits	Not used			
4495	RMI fuel 16.2	Enable	OFF ON	OFF			
4496	RMI fuel 16.2	Fail class	F1...F8	Warning (F2)			
<b>4500 Wire fail 16</b>							
4501	W. fail 16	Relay output A	Not used Limits	Not used		Installation and maintenance manual ref. 5304	The wire break fault detection is activated.
4502	W. fail 16	Relay output B	Not used Limits	Not used			
4503	W. fail 16	Enable	OFF ON	OFF			
4504	W. fail 16	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

#### 2.5.4 - Multi-input no. 17

The available menus for multi-input no. 17 depend on the input type configured in the PC utility software (menu 11300).

#### 2.5.5 - Multi-input no. 18

The available menus for multi-input no. 18 depend on the input type configured in the PC utility software (menu 11310).

#### 2.5.6 - Multi-input no. 19

The available menus for multi-input no. 19 depend on the input type configured in the PC utility software (menu 11160).

#### 2.5.7 - Speed and running feedback setup

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4510 Overspeed 1</b>							
4511	Over-speed 1	Set point	100.0 % 150.0 %	110.0 %		Installation and maintenance manual ref. 5304	The set point in percentage relates to nominal RPM.
4512	Over-speed 1	Timer	0.0 s 100.0 s	5.0 s			
4513	Over-speed 1	Relay output A	Not used Limits	Not used			
4514	Over-speed 1	Relay output B	Not used Limits	Not used			
4515	Over-speed 1	Enable	OFF ON	OFF			
4516	Over-speed 1	Fail class	F1...F8	Warning (F2)			
<b>4520 Overspeed 2</b>							
4521	Over-speed 2	Set point	100.0 % 150.0 %	120.0 %		Installation and maintenance manual ref. 5304	The set point in percentage relates to nominal RPM.
4522	Over-speed 2	Timer	0.0 s 100.0 s	1.0 s			
4523	Over-speed 2	Relay output A	Not used Limits	Not used			
4524	Over-speed 2	Relay output B	Not used Limits	Not used			
4525	Over-speed 2	Enable	OFF ON	OFF			
4526	Over-speed 2	Fail class	F1...F8	Shutdown (F2)			



## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4530 Crank failure</b>							
4531	Crank failure	Set point	1 RPM 400 RPM	50 RPM		Installation and maintenance manual ref. 5304	If MPU is chosen as the primary running feedback, this alarm will be raised if the specified RPM is not reached before the delay has expired.
4532	Crank failure	Timer	0.0 s 20.0 s	2.0 s			
4533	Crank failure	Relay output A	Not used Limits	Not used			
4534	Crank failure	Relay output B	Not used Limits	Not used			
4535	Crank failure	Enable	OFF ON	OFF			
4536	Crank failure	Fail class	F1...F8	Warning (F2)			
<b>4540 Running feedback failure</b>							
4541	Run feedb. fail	Timer	0.0 s 20.0 s	2.0 s		Installation and maintenance manual ref. 5304	If running is detected on the frequency (secondary), but the primary running feedback, e.g. digital input, has not detected running, this alarm will be raised after the adjusted delay time.
4542	Run feedb. fail	Relay output A	Not used Limits	Not used			
4543	Run feedb. fail	Relay output B	Not used Limits	Not used			
4544	Run feedb. fail	Enable	OFF ON	ON			
4545	Run feedb. fail	Fail class	F1...F8	Warning (F2)			
<b>4560 Hz/voltage failure</b>							
4561	Hz/V failure	Timer	1.0 s 99.0 s	30.0 s		Installation and maintenance manual ref. 5304	If the frequency and voltage are not within the limits after the running feedback is received, this alarm will be raised when the delay time has expired. Limits are placed in menu 2110 (Sync. blackout).
4562	Hz/V failure	Relay output A	Not used Limits	Not used			
4563	Hz/V failure	Relay output B	Not used Limits	Not used			
4564	Hz/V failure	Enable	OFF ON	ON			
4565	Hz/V failure	Fail class	F1...F8	Shutdown (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4570 Start failure</b>							
4571	Start failure	Relay output A	Not used Limits	Not used		Installation and maintenance manual ref. 5304	The start failure alarm occurs if the genset has not started after the number of start attempts.
4572	Start failure	Relay output B	Not used Limits	Not used			
4573	Start failure	Fail class	F1...F8	Block (F1)			
<b>4580 Stop failure</b>							
4581	Stop failure	Timer	10.0 s 120.0 s	30.0 s		Installation and maintenance manual ref. 5304	A stop failure alarm will appear if the primary running feedback or the generator voltage and frequency are still present after the delay time has expired.
4582	Stop failure	Relay output A	Not used Limits	Not used			
4583	Stop failure	Relay output B	Not used Limits	Not used			
4584	Stop failure	Enable	OFF ON	ON			
4585	Stop failure	Fail class	F1...F8	Shutdown (F5)			
<b>4590 Underspeed 1</b>							
4591	Underspeed	Set point	50.0 % 100.0 %	90.0 %		Installation and maintenance manual ref. 5304	The set point in percentage relates to nominal RPM.
4592	Underspeed	Timer	0.0 s 100.0 s	5.0 s			
4593	Underspeed	Relay output A	Not used Limits	Not used			
4594	Underspeed	Relay output B	Not used Limits	Not used			
4595	Underspeed	Enable	OFF ON	OFF			
4596	Underspeed	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

#### 2.5.8 - Differential measurement

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4600 Delta ana 1/2/3 Inp</b>							
4601	Delta ana1 InpA	Set point	Multi-input 14 EIC	Multi-input 14		Installation and maintenance manual ref. 5304	Delta analogue Inp 1/2/3 setting. Choose between multi-inputs, external analogue inputs and EIC values.
4602	Delta ana1 InpB	Set point	Multi-input 14 EIC	Multi-input 14			
4603	Delta ana1 InpA	Set point	Multi-input 14 EIC	Multi-input 14			
4604	Delta ana1 InpB	Set point	Multi-input 14 EIC	Multi-input 14			
4605	Delta ana1 InpA	Set point	Multi-input 14 EIC	Multi-input 14			
4606	Delta ana1 InpB	Set point	Multi-input 14 EIC	Multi-input 14			
<b>4610 Delta ana1 1</b>							
4611	Delta ana1 1	Set point	-9999 9999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 1.1.
4612	Delta ana1 1	Timer	0.0 s 999.0 s	5.0 s			
4613	Delta ana1 1	Relay output A	Not used Limits	Not used			
4614	Delta ana1 1	Relay output B	Not used Limits	Not used			
4615	Delta ana1 1	Enable	OFF ON	OFF			
4616	Delta ana1 1	Fail class	F1...F8	Warning (F2)			
<b>4620 Delta ana1 2</b>							
4621	Delta ana1 2	Set point	-9999 9999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 1.2.
4622	Delta ana1 2	Timer	0.0 s 999.0 s	5.0 s			
4623	Delta ana1 2	Relay output A	Not used Limits	Not used			
4624	Delta ana1 2	Relay output B	Not used Limits	Not used			
4625	Delta ana1 2	Enable	OFF ON	OFF			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4626	Delta ana1 2	Fail class	F1...F8	Warning (F2)			
<b>4630 Delta ana2 1</b>							
4631	Delta ana2 1	Set point	-9999 9999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 2.1.
4632	Delta ana2 1	Timer	0.0 s 999.0 s	5.0 s			
4633	Delta ana2 1	Relay output A	Not used Limits	Not used			
4634	Delta ana2 1	Relay output B	Not used Limits	Not used			
4635	Delta ana2 1	Enable	OFF ON	OFF			
4636	Delta ana2 1	Fail class	F1...F8	Warning (F2)			
<b>4640 Delta ana2 2</b>							
4641	Delta ana2 2	Set point	-9999 999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 2.2.
4642	Delta ana2 2	Timer	0.0 s 999.0 s	5.0 s			
4643	Delta ana2 2	Relay output A	Not used Limits	Not used			
4644	Delta ana2 2	Relay output B	Not used Limits	Not used			
4645	Delta ana2 2	Enable	OFF ON	OFF			
4646	Delta ana2 2	Fail class	F1...F8	Warning (F2)			
<b>4650 Delta ana3 1</b>							
4651	Delta ana3 1	Set point	-9999 9999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 3.1.
4652	Delta ana3 1	Timer	0.0 s 999.0 s	5.0 s			
4653	Delta ana3 1	Relay output A	Not used Limits	Not used			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
4654	Delta ana3 1	Relay output B	Not used Limits	Not used			
4655	Delta ana3 1	Enable	OFF ON	OFF			
4656	Delta ana3 1	Fail class	F1...F8	Warning (F2)			
<b>4660 Delta ana3 2</b>							
4661	Delta ana3 2	Set point	-9999 9999	10		Installation and maintenance manual ref. 5304	Delta analogue alarm setting 3.2.
4662	Delta ana3 2	Timer	0.0 s 999.0 s	5.0 s			
4663	Delta ana3 2	Relay output A	Not used Limits	Not used			
4664	Delta ana3 2	Relay output B	Not used Limits	Not used			
4665	Delta ana3 2	Enable	OFF ON	OFF			
4666	Delta ana3 2	Fail class	F1...F8	Warning (F2)			

### 2.5.9 - Aux. supply setup

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4960 U&lt; auxiliary power supply terminal 1</b>							
4961	U< aux. term. 1	Set point	8.0 V <sub>dc</sub> 32.0 V <sub>dc</sub>	18.0 V <sub>dc</sub>		Installation and maintenance manual ref. 5304	The power supply on terminal 4 and 5 has been continuously below the adjusted set point during the programmed delay.
4962	U< aux. term. 1	Timer	10.0 s 999.0 s	10.0 s			
4963	U< aux. term. 1	Relay output A	Not used Limits	Not used			
4964	U< aux. term. 1	Relay output B	Not used Limits	Not used			
4965	U< aux. term. 1	Enable	OFF ON	ON			
4966	U< aux. term. 1	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>4970 U&gt; auxiliary power supply terminal 1</b>							
4971	U> aux. term. 1	Set point	12.0 V <sub>dc</sub> 36.0 V <sub>dc</sub>	30.0 V <sub>dc</sub>		Installation and maintenance manual ref. 5304	The power supply on terminal 4 and 5 has been continuously above the adjusted set point during the programmed delay.
4972	U> aux. term. 1	Timer	10.0 s 999.0 s	10.0 s			
4973	U> aux. term. 1	Relay output A	Not used Limits	Not used			
4974	U> aux. term. 1	Relay output B	Not used Limits	Not used			
4975	U> aux. term. 1	Enable	OFF ON	ON			
4976	U> aux. term. 1	Fail class	F1...F8	Warning (F2)			

## 2.6 - System parameters, general setup

### 2.6.1 - Engine heater failure

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6330 Engine heater 1</b>							
6331	Engine heater 1	Set point	10 deg 250 deg	30 deg		Installation and maintenance manual ref. 5304	
6332	Engine heater 1	Timer	1.0 s 300.0 s	10.0 s			
6333	Engine heater 1	Relay output A	Not used Limits	Not used			
6334	Engine heater 1	Relay output B	Not used Limits	Not used			
6335	Engine heater 1	Enable	OFF ON	OFF			
6336	Engine heater 1	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

#### 2.6.2 - Max. ventilation

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>6470 Max vent 1</b>						
6471	Max vent 1	Set point	20 deg 250 deg	95 deg	Installation and maintenance manual ref. 5304	If the cooling fans fail to operate and the coolant temperature exceeds the setting, the alarm will activate.
6472	Max vent 1	Timer	0.0 s 60.0 s	1.0 s		
6473	Max vent 1	Relay output A	Not used Limits	Not used		
6474	Max vent 1	Relay output B	Not used Limits	Not used		
6475	Max vent 1	Enable	OFF ON	OFF		
6476	Max vent 1	Fail class	F1...F8	Warning (F2)		
<b>6480 Max vent 2</b>						
6481	Max vent 2	Set point	20 deg 250 deg	95 deg	Installation and maintenance manual ref. 5304	If the cooling fans fail to operate and the coolant temperature exceeds the setting, the alarm will activate.
6482	Max vent 2	Timer	0.0 s 60.0 s	1.0 s		
6483	Max vent 2	Relay output A	Not used Limits	Not used		
6484	Max vent 2	Relay output B	Not used Limits	Not used		
6485	Max vent 2	Enable	OFF ON	OFF		
6486	Max vent 2	Fail class	F1...F8	Shutdown (F5)		

## ControlReg series

### Alarms and Parameters list

## 2.7 - System parameters, communication

### 2.7.1 - Engine interface communication alarms

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7570 EI comm. error</b>							
7571	EI comm. error	Timer	0.0 s 100.0 s	0.0 s			Supervision of the EIC communication line. The alarm will occur when there has not been any communication during the time delay.
7572	EI comm. error	Relay output A	Not used Limits	Not used			
7573	EI comm. error	Relay output B	Not used Limits	Not used			
7574	EI comm. error	Enable	OFF ON	OFF			
7575	EI comm. error	Fail class	F1...F8	Warning (F2)			
<b>7580 EIC warning</b>							
7581	EIC warning	Timer	0.0 s 100.0 s	0.0 s			
7582	EIC warning	Relay output A	Not used Limits	Not used			
7583	EIC warning	Relay output B	Not used Limits	Not used			
7584	EIC warning	Enable	OFF ON	OFF			
7585	EIC warning	Fail class	F1...F8	Warning (F2)			
<b>7590 EIC shutdown</b>							
7591	EIC shutdown	Timer	0.0 s 100.0 s	0.0 s			
7592	EIC shutdown	Relay output A	Not used Limits	Not used			
7593	EIC shutdown	Relay output B	Not used Limits	Not used			
7594	EIC shutdown	Enable	OFF ON	OFF			
7595	EIC shutdown	Fail class	F1...F8	Warning (F2)			



## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7600 EIC overspeed</b>							
7601	EIC overspeed	Set point	100.0 % 150.0 %	110.0 %			
7602	EIC overspeed	Timer	0.0 s 100.0 s	5.0 s			
7603	EIC overspeed	Relay output A	Not used Limits	Not used			
7604	EIC overspeed	Relay output B	Not used Limits	Not used			
7605	EIC overspeed	Enable	OFF ON	OFF			
7606	EIC overspeed	Fail class	F1...F8	Warning (F2)			
<b>7610 EIC Coolant temp. 1</b>							
7611	EIC coolant t. 1	Set point	-40 deg 410 deg	100 deg			
7612	EIC coolant t. 1	Timer	0.0 s 100.0 s	5.0 s			
7613	EIC coolant t. 1	Relay output A	Not used Limits	Not used			
7614	EIC coolant t. 1	Relay output B	Not used Limits	Not used			
7615	EIC coolant t. 1	Enable	OFF ON	OFF			
7616	EIC coolant t. 1	Fail class	F1...F8	Warning (F2)			
<b>7620 EIC Coolant temp. 2</b>							
7621	EIC coolant t. 2	Set point	-40 deg 410 deg	110 deg			
7622	EIC coolant t. 2	Timer	0.0 s 100.0 s	5.0 s			
7623	EIC coolant t. 2	Relay output A	Not used Limits	Not used			
7624	EIC coolant t. 2	Relay output B	Not used Limits	Not used			
7625	EIC coolant t. 2	Enable	OFF ON	OFF			
7626	EIC coolant t. 2	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7630 EIC Oil pressure 1</b>							
7631	EIC oil press. 1	Set point	0.0 bar 145.0 bar	2.0 bar			
7632	EIC oil press. 1	Timer	0.0 s 100.0 s	5.0 s			
7633	EIC oil press. 1	Relay output A	Not used Limits	Not used			
7634	EIC oil press. 1	Relay output B	Not used Limits	Not used			
7635	EIC oil press. 1	Enable	OFF ON	OFF			
7636	EIC oil press. 1	Fail class	F1...F8	Warning (F2)			
<b>7640 EIC Oil pressure 2</b>							
7641	EIC oil press. 2	Set point	0.0 bar 145.0 bar	1.0 bar			
7642	EIC oil press. 2	Timer	0.0 s 100.0 s	5.0 s			
7643	EIC oil press. 2	Relay output A	Not used Limits	Not used			
7644	EIC oil press. 2	Relay output B	Not used Limits	Not used			
7645	EIC oil press. 2	Enable	OFF ON	OFF			
7646	EIC oil press. 2	Fail class	F1...F8	Shutdown (F5)			
<b>7650 EIC Oil temp 1</b>							
7651	EIC oil temp. 1	Set point	0 deg 410 deg	40 deg			
7652	EIC oil temp. 1	Timer	0.0 s 100.0 s	5.0 s			
7653	EIC oil temp. 1	Relay output A	Not used Limits	Not used			
7654	EIC oil temp. 1	Relay output B	Not used Limits	Not used			
7655	EIC oil temp. 1	Enable	OFF ON	OFF			
7656	EIC oil temp. 1	Fail class	F1...F8	Warning (F2)			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7660 EIC Oil temp 2</b>							
7661	EIC oil temp. 2	Set point	0 deg 410 deg	50 deg			
7662	EIC oil temp. 2	Timer	0.0 s 100.0 s	5.0 s			
7663	EIC oil temp. 2	Relay output A	Not used Limits	Not used			
7664	EIC oil temp. 2	Relay output B	Not used Limits	Not used			
7665	EIC oil temp. 2	Enable	OFF ON	OFF			
7666	EIC oil temp. 2	Fail class	F1...F8	Shutdown (F5)			
<b>7670 EIC Coolant level 1</b>							
7671	EIC coolant level 1	Set point	0 % 100 %	20 %			
7672	EIC coolant level 1	Timer	0.0 s 100.0 s	5.0 s			
7673	EIC coolant level 1	Relay output A	Not used Limits	Not used			
7674	EIC coolant level 1	Relay output B	Not used Limits	Not used			
7675	EIC coolant level 1	Enable	OFF ON	OFF			
7676	EIC coolant level 1	Fail class	F1...F8	Warning (F2)			
<b>7680 EIC Coolant level 2</b>							
7681	EIC coolant level 2	Set point	0 % 100 %	10 %			
7682	EIC coolant level 2	Timer	0.0 s 100.0 s	5.0 s			
7683	EIC coolant level 2	Relay output A	Not used Limits	Not used			
7684	EIC coolant level 2	Relay output B	Not used Limits	Not used			
7685	EIC coolant level 2	Enable	OFF ON	OFF			
7686	EIC coolant level 2	Fail class	F1...F8	Shutdown (F5)			

# ControlReg series

## Alarms and Parameters list

### 3 - PARAMETER LIST

#### 3.1 - General information about the parameter list

The parameter list contains settings for regulators and other non-alarm-related settings.

#### 3.2 - Control parameter, regulation

##### 3.2.1 - Regulation

No.	Setting		Min. Max.	Factory setting	Ref.
<b>2500 AVR settings</b>					
2501	AVR	Knee point	45Hz 70Hz	48Hz	Installation and maintenance manual ref. 5304
2502	AVR	U/F Var. Slope	1 3	1	
<b>2510 AVR Loss of sensing</b>					
2511	Loss of sensing	Set point	0.0 % 10.0 %	5.0 %	Installation and maintenance manual ref. 5304
2512	Loss of sensing	Timer	0.10 s 100 s	1.00 s	
2513	Loss of sensing	Relay output A	Not used Limits	Not used	
2514	Loss of sensing	Relay output B	Not used Limits	Not used	
2515	Loss of sensing	Enable	OFF ON	OFF	
2516	Loss of sensing	Fail class	F5 F6	Trip+stop+de-excite (F5)	
<b>2600 AVR setting</b>					
2601	AVR	PID setting	Standard Fast	Standard	Installation and maintenance manual ref. 5304
2611	AVR	Softstart	0.1s 120s	2s	
2613	AVR	Act. Threshold	0% 100%	50%	
2614	AVR	Ramp delay	-100s 100s	0s	

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>2770 EIC speed control</b>							
2771	Scania control	Droop	0.0 % 25.0 %	0.0 %	Only applicable if «Scania» is selected in menu 7561.		Setting of speed control via engine communication interface.
2772	Scania control	RPM	User 1500 RPM 1800 RPM Low idle	User			
2773	Cummins Gain	Kp	0.00 10.00	5.00	Only applicable when «Cummins» is selected in menu 7561.		
<b>2790 EIC speed demand switch</b>							
2791	EIC speed dem. sw.	Local norm sw.	Ana. CAN Up/Down ECU Up/Down CAN Ana. ECU Ana. ECU rel. Frequency	Ana. CAN			See description in engine interface communication manual ref. 5313.
2792	EIC speed dem. sw.	Local Emerg sw.	Ana. CAN Up/Down ECU Up/Down CAN Ana. ECU Ana. ECU rel. Frequency	Ana. CAN			
2793	EIC speed dem. sw.	Remote norm sw.	Ana. CAN Up/Down ECU Up/Down CAN Ana. ECU Ana. ECU rel. Frequency	Ana. CAN			
2794	EIC speed dem. sw.	Remote Emerg sw.	Ana. CAN Up/Down ECU Up/Down CAN Ana. ECU Ana. ECU rel. Frequency	Ana. CAN			

## ControlReg series

### Alarms and Parameters list

### 3.3 - Control parameters, output setup

#### 3.3.1 - Digital outputs setup

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>5000 Digital Output 7</b>							
5001	DO 7	Function	Alarm relay ND Alarm relay NE	Alarm relay ND		Installation and maintenance manual ref. 5304	Function selections: - Alarm relay ND - Limit relay - Horn relay - Alarm relay NE
5002	DO 7	OFF delay	0.0 s 999.9 s	5.0 s			
<b>5010 Digital Output 8</b>							
5011	DO 8	Function	Alarm relay ND Alarm relay NE	Alarm relay ND		Installation and maintenance manual ref. 5304	Function selections: - Alarm relay ND - Limit relay - Horn relay - Alarm relay NE
5012	DO 8	OFF delay	0.0 s 999.9 s	5.0 s			
<b>5020 Digital Output 9</b>							
5021	DO 9	Function	Alarm relay ND Alarm relay NE	Alarm relay ND		Installation and maintenance manual ref. 5304	Function selections: - Alarm relay ND - Limit relay - Horn relay - Alarm relay NE
5022	DO 9	OFF delay	0.0 s 999.9 s	5.0 s			
<b>5030 Digital Output 10</b>							
5031	DO 10	Function	Alarm relay ND Alarm relay NE	Alarm relay ND		Installation and maintenance manual ref. 5304	Function selections: - Alarm relay ND - Limit relay - Horn relay - Alarm relay NE
5032	DO 10	OFF delay	0.0 s 999.9 s	5.0 s			
<b>5040 Digital Output 11</b>							
5041	DO 11	Function	Alarm relay ND Alarm relay NE	Alarm relay ND		Installation and maintenance manual ref. 5304	Function selections: - Alarm relay ND - Limit relay - Horn relay - Alarm relay NE
5042	DO 11	OFF delay	0.0 s 999.9 s	5.0 s			

## ControlReg series

### Alarms and Parameters list

### 3.4 - System parameters, general setup

#### 3.4.1 - General setup

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6000 Nominal settings 1</b>							
6001	Nom. settings 1	Fre- quency	48.0 Hz 62.0 Hz	50.0 Hz		Installation and maintenance manual ref. 5304	The selection of nominal settings to be used is set in menu 6006. A binary input or selection in M-Logic can also be used. Scaling of power and voltage range is dependent on parameter 9030.
6002	Nom. settings 1	Power	10 kW 90.00 MW	480 kW			
6003	Nom. settings 1	Current	0 A 9000 A	867 A			
6004	Nom. settings 1	Voltage	100 V 75 kV	400 V			
6005	Nom. settings 1	RPM	100 RPM 4000 RPM	1500 RPM			
6006	Nom. settings 1	Setting	1 4	1			
<b>6010 Nominal settings 2</b>							
6011	Nom. settings 2	Fre- quency	48.0 Hz 62.0 Hz	50.0 Hz		Installation and maintenance manual ref. 5304	
6012	Nom. settings 2	Power	10 kW 90.00 MW	230 kW			
6013	Nom. settings 2	Current	0 A 9000 A	345 A			
6014	Nom. settings 2	Voltage	100 V 75 kV	480 V			
6015	Nom. settings 2	RPM	100 RPM 4000 RPM	1500 RPM			
<b>6020 Nominal settings 3</b>							
6021	Nom. settings 3	Fre- quency	48.0 Hz 62.0 Hz	60.0 Hz		Installation and maintenance manual ref. 5304	
6022	Nom. settings 3	Power	10 kW 90.00 MW	230 kW			
6023	Nom. settings 3	Current	0 A 9000 A	345 A			
6024	Nom. settings 3	Voltage	100 V 75 kV	480 V			
6025	Nom. settings 3	RPM	100 RPM 4000 RPM	1800 RPM			

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6030 Nominal settings 4</b>							
6031	Nom. settings 4	Fre-quency	48.0 Hz 62.0 Hz	60.0 Hz		Installation and maintenance manual ref. 5304	
6032	Nom. settings 4	Power	10 kW 90.00 MW	230 kW			
6033	Nom. settings 4	Current	0 A 9000 A	345 A			
6034	Nom. settings 4	Voltage	100 V 75 kV	480 V			
6035	Nom. settings 4	RPM	100 RPM 4000 RPM	1800 RPM			
<b>6040 G transformer</b>							
6041	G transformer	U primary	100 V 75 kV	400 V		Installation and maintenance manual ref. 5304	If no voltage transformer is present, the primary and secondary side values are set to generator nominal value.
6042	G transformer	U secondary	100 V 480 V	400 V			
6043	G transformer	I primary	5 A 9000 A	1000 A			
6044	G transformer	I secondary	1 A 5 A	1 A			
<b>6050 Busbar settings</b>							
6051	BB transformer	U primary	100 V 75 kV	400 V		Installation and maintenance manual ref. 5304	If no voltage transformer is present, the primary and secondary side values are set to generator nominal value.
6052	BB transformer	U secondary	100 V 480 V	400 V			
6053	BB transformer	Nominal U 1	100 V 75 kV	400 V			
6054	BB transformer	Bus nom. set	Param set 1 Param set 2	Param set 1			
<b>6060 Busbar settings 2</b>							
6061	BB transformer	U primary	100 V 75 kV	400 V		Installation and maintenance manual ref. 5304	If no voltage transformer is present, the primary and secondary side values are set to generator nominal value.
6062	BB transformer	U secondary	100 V 480 V	400 V			
6063	BB transformer	Nominal U 2	100 V 75 kV	400 V			



## ControlReg series

### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>6070 Genset mode</b>						
6071	Genset mode		Island Load takeover		Installation and maintenance manual ref. 5304	Selections are: - Island - Auto Mains Failure - Load takeover
<b>6080 Language</b>						
6081	Language		English Language 3	English	Installation and maintenance manual ref. 5304	The master language is English. Additionally, 11 different languages can be configured with the PC utility software. Only 3 different languages can be written to the controller.

#### 3.4.2 - Counters and timers

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>6100 Counters</b>						
6101	Counters	Run.H. *1	0 hrs 999 hrs	0 hour	Installation and maintenance manual ref. 5304	Setting 6105 resets the kWh counter to 0. It automatically reverts to OFF after being set ON.
6102	Counters	Run.H. *1000	0 hrs 999 hrs	0 hour		
6103	Counters	GB operation	0 20000	0		
6104	Counters	MB operation	0 20000	0		
6105	Counters	kWh	OFF ON	OFF		
6106	Counters	Start attempts	0 20000	0		
<b>6110 Service timer 1</b>						
6111	Service timer 1	Enable	OFF ON	ON	Installation and maintenance manual ref. 5304	The timer is reset by enabling menu 6116. The menu automatically goes OFF.
6112	Service timer 1	Hours timer	0 hrs 9000 hrs	500 hrs		

## ControlReg series

### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
6113	Service timer 1	Days timer	1 days 1000 days	365 days			
6114	Service timer 1	Fail class	F1...F8	F2 (Warning)			
6115	Service timer 1	Output A	Not used Limits	Not used			
6116	Service timer 1	Reset	OFF ON	OFF			
<b>6120 Service timer 2</b>							
6121	Service timer 2	Enable	OFF ON	ON		Installation and maintenance manual ref. 5304	The timer is reset by enabling menu 6126. The menu automatically goes OFF.
6122	Service timer 2	Hours timer	0 hrs 9000 hrs	500 hrs			
6123	Service timer 2	Days timer	1 days 1000 days	365 days			
6124	Service timer 2	Fail class	F1...F8	F2 (Warning)			
6125	Service timer 2	Output A	Not used Limits	Not used			
6126	Service timer 2	Reset	OFF ON	OFF			

### 3.4.3 - Alarm horn

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6130 Alarm horn</b>							
6131	Alarm horn	ON time	0.0 sec 990.0 sec	20.0 sec		Installation and maintenance manual ref. 5304	If the setting is adjusted to 0 s, the horn relay will be activated continuously until the alarm is acknowledged.

## ControlReg series

### Alarms and Parameters list

#### 3.4.4 - Run coil setup

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6150 Run coil setup</b>							
6151	Run coil setup	ON time	0.0 sec 600.0 sec	1.0 sec		Installation and maintenance manual ref. 5304	
6152	Run coil setup	Type	Pulse Continuous	Pulse		Installation and maintenance manual ref. 5304	Pulse: Reset for each start attempt. Continuous: High throughout all start attempts.

#### 3.4.5 - Running, start and stop

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6160 Run status</b>							
6161	Run status	Timer	0.0 s 300.0 s	5.0 s		Installation and maintenance manual ref. 5304	If a relay output is used, the relay in question must be set to «limit».
6162	Run status	Relay output A	Not used Limits	Not used			
6163	Run status	Relay output B	Not used Limits	Not used			
6164	Run status	Enable	OFF ON	OFF			

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### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6170 Running feedback</b>							
6171	Running feedback	Teeth	0 teeth 500 teeth	0 teeth		Installation and maintenance manual ref. 5304	Available running detection types: - Binary input - MPU input - Frequency - EIC (engine communication) - Multi-inputs 14 to 19 If menu 6171 is set to 0, the magnetic pickup (MPU) input is not active. If menu 6175 is set to 0.0, the oil pressure running feedback is not active.
6172	Running feedback	Type	Binary input EIC	Frequency			
6173	Running feedback	Run detect	0 RPM 4000 RPM	1000 RPM			
6174	Running feedback	Remove starter	1 RPM 2000 RPM	400 RPM			
6175	Running feedback	Oil pressure	0.0 bar 150.0 bar	0.0 bar			
<b>6180 Starter</b>							
6181	Starter	Start prepare	0.0 s 600.0 s	5.0 s		Installation and maintenance manual ref. 5304	Menu 6185 and 6186 relate to using oil pressure as running feedback. If menu 6186 is set to 0.0, the oil pressure running feedback is disregarded.
6182	Starter	Ext. prepare	0.0 s 600.0 s	0.0 s			
6183	Starter	Start ON time	1.0 s 180.0 s	5.0 s			
6184	Starter	Start OFF time	1.0 s 99.0 s	5.0 s			
6185	Starter	Type	Multi-input 14 Multi-input 15	Multi-input 14			
6186	Starter	Set point	0.0 bar 300.0 bar	0.0 bar			

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### Alarms and Parameters list

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6190 Start attempts</b>							
6191	Start attempts	Set point	1 10	3		Installation and maintenance manual ref. 5304	Number of start attempts.
<b>6200 Shutdown override</b>							
6201	Shutdown override	Attempts	1 10	7		Installation and maintenance manual ref. 5304	Shutdown override turns all shutdowns into warnings. Only exception is overspeed and emergency stop.
6202	Shutdown override	Cooling down timer	0 s 9900 s	240 s			
6203	Shutdown override	Reset	OFF ON	OFF			
<b>6210 Stop</b>							
6211	Stop	Cooling down	0 s 9900 s	240 s		Installation and maintenance manual ref. 5304	The extended stop timer starts when the running feedback disappears. During the delay time it is not possible to start the engine.
6212	Stop	Extended stop	1.0 s 99.0 s	5.0 s			
6213	Stop	Type	Multi-input 14 EIC	Multi-input 14			
6214	Stop	Set point	0 deg. 482 deg.	0 deg.			
<b>6220 Hz/V OK</b>							
6221	HZ/V OK	Timer	1.0 s 99.0 s	5.0 s		Installation and maintenance manual ref. 5304	The voltage and frequency have to be continuously within the limits during the delay timer before the breaker can be closed.

## ControlReg series

### Alarms and Parameters list

#### 3.4.6 - Breaker control

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6230 GB control</b>							
6231	GB control	Close delay	0.0 s 30.0 s	2.0 s		Installation and maintenance manual ref. 5304	Menu 6232 is for compact breakers (need to charge spring before closing).
6232	GB control	Load time	0.0 s 30.0 s	0.0 s			

#### 3.4.7 - Idle start

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6290 Idle running</b>							
6291	Idle start	Start timer	0.0 min. 999.0 min.	300.0 min.		Installation and maintenance manual ref. 5304	
6292	Idle start	Enable start	OFF ON	OFF			
6293	Idle stop	Stop timer	0.0 min. 999.0 min.	300.0 min.			
6294	Idle stop	Enable stop	OFF ON	OFF			
6295	Idle active	Relay output A	Not used Limits	Not used			
6296	Idle active	Idle running	OFF ON	OFF			

#### 3.4.8 - Engine heater

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6320 Engine heater</b>							
6321	Engine heater	Set point	20 deg. 250 deg.	40 deg.		Installation and maintenance manual ref. 5304	Heater function for standstill. Type: - Multi-inputs 14 to 19 - EIC
6322	Engine heater	Relay output A	Not used Limits	Not used			
6323	Engine heater	Type	Multi-inp 14 EIC	Multi-input 14			
6324	Engine heater	Hysteresis	1 deg. 70 deg.	3 deg.			
6325	Engine heater	Enable	OFF ON	OFF			

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### Alarms and Parameters list

#### 3.4.9 - Cooling ventilation

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6460 Max. ventilation</b>							
6461	Max. ventilation	Set point	20 deg. 250 deg.	90 deg.		Installation and maintenance manual ref. 5304	Ventilation fan control.
6462	Max. ventilation	Relay output A	Not used Limits	Not used			
6463	Max. ventilation	Hysteresis	1 deg. 70 deg.	5 deg.			
6464	Max. ventilation	Enable	OFF ON	OFF			

#### 3.4.10 - Fuel transfer pump logic

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6550 Fuel pump logic</b>							
6551	Fuel pump logic	Pump start	0 % 100 %	20 %		Installation and maintenance manual ref. 5304	Type: - Multi-inputs 6 to 19 - auto detection
6552	Fuel pump logic	Pump stop	0 % 100 %	80 %			
6553	Fuel pump logic	Fill check time	0.1 s 300.0 s	60.0 s			
6554	Fuel pump logic	Relay output A	Not used Limits	Not used			
6555	Fuel pump logic	Set point	Multi-inp 14 Auto detect.	Auto detect.			
6556	Fuel pump logic	Fail class	F1...F8	Warning (F2)			

#### 3.4.11 - Alarm jump

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6900 Alarm jump</b>							
6901	Alarm jump	Enable	OFF ON	ON		Installation and maintenance manual ref. 5304	Selection of jump to alarm list view on the display if an alarm appears (ON), or stay at present view (OFF).

## ControlReg series

### Alarms and Parameters list

#### 3.4.12 - Command timers

There are four identical command timers in the unit, menu 6960-6996, but only command timer 1 is displayed in this manual.

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>6960 Command start/stop timer 1</b>							
6961	Start timer 1 days	Set point	MO MO-TU- WE-TH- FR-SA-SU	OFF		Installation and maintenance manual ref. 5304	Selections are: MO TU WE TH FR SA SU MO-TU-WE-TH MO-TU-WE-TH-FR SA-SU MO-TU-WE-TH-FR SA-SU
6962	Start timer 1 hour	Set point	0 23	10		Installation and maintenance manual ref. 5304	
6963	Start timer 1 min	Set point	0 59	0		Installation and maintenance manual ref. 5304	
6964	Stop timer 1 days	Set point	MO MO-TU- WE-TH- FR-SA-SU	MO-TU- WE-TH- FR-SA- SU		Installation and maintenance manual ref. 5304	Selections are: MO TU WE TH FR SA SU MO-TU-WE-TH MO-TU-WE-TH-FR SA-SU MO-TU-WE-TH-FR SA-SU
6965	Stop timer 1 hour	Set point	0 23	10		Installation and maintenance manual ref. 5304	
6966	Stop timer 1 min	Set point	0 59	0		Installation and maintenance manual ref. 5304	

**Start/stop timers can be used in M-Logic.**



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### Alarms and Parameters list

### 3.5 - System parameters, mains setup

#### 3.5.1 - Test

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7040 Test running</b>							
7042	Test	Test time	0.0 min. 999.0 min.	5.0 min.		Installation and maintenance manual ref. 5304	Available test types: - Simple (engine run only) - Full (disconnects mains)
7043	Test	Return mode	Semi-auto mode Auto mode	Auto mode			
7044	Test	Test type	Simple test Full test	Simple test			

#### 3.5.2 - Mains failure

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7060 U Mains Failure</b>							
7061	U Mains failure	Fail. delay	0.5 s 990.0 s	5.0 s		Installation and maintenance manual ref. 5304	Menus 7063 and 7064 relate to nominal settings. Menu 7066 refers to the mean value of the measured voltage.
7062	U Mains failure	Mains OK delay	10 s 9900 s	60 s			
7063	U Mains failure	U<	80 % 100 %	90 %			
7064	U Mains failure	U>	100 % 120 %	110 %			
7065	U Mains failure	Mains fail. control	Start eng. + open MB Start engine	Start eng. + open MB			
7066	U Mains failure	U un-balance	2 % 100 %	100 %			
<b>7070 f Mains Failure</b>							
7071	f Mains failure	Fail. delay	0.5 s 990.0 s	5.0 s		Installation and maintenance manual ref. 5304	Menus 7073 and 7074 relate to nominal settings.
7072	f Mains failure	Mains OK delay	10 s 9900 s	60 s			
7073	f Mains failure	f<	80.0 % 100.0 %	95.0 %			
7074	f Mains failure	f>	100.0 % 120.0 %	105.0 %			
<b>7080 MB control</b>							
7081	MB control	Mode shift	OFF ON	OFF		Installation and maintenance manual ref. 5304	Mode shift allows switching to AMF mode.
7082	MB control	MB close delay	0.0 s 30.0 s	0.5 s			
7085	MB control	Load time	0.0 s 30.0 s	0.0 s			

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### Alarms and Parameters list

### 3.6 - System parameters, engine interface communication

#### 3.6.1 - Engine interface communication

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>7560 Engine Interface(I/F)</b>							
7561	Engine I/F	Engine type	OFF DDEC EMR JDEC Iveco Perkins Caterpillar Volvo Penta Volvo Penta EMS 2 Scania EMS Scania EMS 2 MDEC 2000/4000 M. 302 MDEC 2000/4000 M. 303 MTU ADEC Cummins Generic J1939 MTU J1939 Smart Connect	OFF			Please choose MDEC 2000/4000 M.303 when M.201 or M.304 is required. Menu 7562 is only applicable when MTU ADEC is selected as engine type. Menu 7563 is for enabling the EIC commands transmission.
7562	CANopen ID	Node ID	0 16	0			
7563	EIC Controls	Enable	OFF ON	ON			
7564	EIC Auto view	Enable	OFF ON	OFF			

## ControlReg series

### Alarms and Parameters list

### 3.7 - System parameters, setup menu

#### 3.7.1 - Password configuration

No.	Setting		Min. Max.	Factory setting	Notes	Ref.	Description
<b>9110 Password</b>							
9111	User password	Setting	0 32000	2000		Installation and maintenance manual ref. 5304	It is recommended to change the password levels of the user, service and master password if access to parameter settings must be restricted.
9112	Service password	Setting	0 32000	2001			
9113	Master password	Setting	0 32000	2002			

#### 3.7.2 - AC config.

This menu is used to choose the AC configuration.

No.	Setting		Description
<b>9130 AC configuration</b>			
9130	AC configuration		Setting Selections: - 3 phase L1L2L3 - 1 phase L1

Phase angles	Description
3 phase L1L2L3	120 degrees with neutral
1 phase L1	Single phase with phase-neutral

#### 3.7.3 - Display control

This menu is used to control parameters for the display on the unit.

No.	Setting		Description
<b>9150 Backlight dim</b>			
9151	Backlight level		50 Sets the light intensity for the display.
9152	Backlight level		0 Sets the contrast for the display.

## ControlReg series

### Alarms and Parameters list

### 3.8 - System parameters, RMI inputs

#### 3.8.1 - RMI 14

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>10460 RMI 14 type</b>						
10460	RMI 14 type	Sensor type 1 Configurable RMI	Sensor type 1		Installation and maintenance manual ref. 5304	Selections are: - Sensor type 1 - Sensor type 2 - Sensor type 3 - Sensor type 4 - Configurable RMI
<b>10470 RMI 14 input set point 1</b>						
10470	RMI 14 inp. setp. 1	0 Ohm 2500 Ohm	10 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10480 RMI 14 output set point 1</b>						
10480	RMI 14 outp. setp. 1	-49 482	40		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10490 RMI 14 input set point 2</b>						
10490	RMI 14 inp. setp. 2	0 Ohm 2500 Ohm	44.9 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10500 RMI 14 output set point 2</b>						
10500	RMI 14 outp. setp. 2	-49 482	50		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10510 RMI 14 input set point 3</b>						
10510	RMI 14 inp. setp. 3	0 Ohm 2500 Ohm	81 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10520 RMI 14 output set point 3</b>						
10520	RMI 14 outp. setp. 3	-49 482	60		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10530 RMI 14 input set point 4</b>						
10530	RMI 14 inp. setp. 4	0 Ohm 2500 Ohm	134.7 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.

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### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>10540 RMI 14 output set point 4</b>						
10540	RMI 14 outp. setp. 4	-49 482	80		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10550 RMI 14 input set point 5</b>						
10550	RMI 14 inp. setp. 5	0 Ohm 2500 Ohm	184 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10560 RMI 14 output set point 5</b>						
10560	RMI 14 outp. setp. 5	-49 482	100		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10570 RMI 14 input set point 6</b>						
10570	RMI 14 inp. setp. 6	0 Ohm 2500 Ohm	200 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10580 RMI 14 output set point 6</b>						
10580	RMI 14 outp. setp. 6	-49 482	110		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10590 RMI 14 input set point 7</b>						
10590	RMI 14 inp. setp. 7	0 Ohm 2500 Ohm	210 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10600 RMI 14 output set point 7</b>						
10600	RMI 14 outp. setp. 7	-49 482	115		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10610 RMI 14 input set point 8</b>						
10610	RMI 14 inp. setp. 8	0 Ohm 2500 Ohm	220 Ohm		Installation and maintenance manual ref. 5304	Configurable RMI curve.
<b>10620 RMI 14 output set point 8</b>						
10620	RMI 14 outp. setp. 8	-49 482	120		Installation and maintenance manual ref. 5304	Configurable RMI curve.

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#### 3.8.2 - RMI 15

RMI 15 settings are only accessible in the utility software.  
Menus 10630-10790 equal the settings for RMI 14 (10460-10620).

#### 3.8.3 - RMI 16

RMI 16 settings are only accessible in the utility software.  
Menus 10800-10960 equal the settings for RMI 14 (10460-10620).

#### 3.8.4 - RMI 17

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>11340 RMI 17 type</b>						
11340	RMI 17 type	Sensor type 1 Sensor type 4	Sensor type 1		Installation and maintenance manual ref. 5304	Selections are: - Sensor type 1 - Sensor type 2 - Sensor type 3 - Sensor type 4

#### 3.8.5 - RMI 18

Menu 11350 equals the settings for RMI 17 (11340).

#### 3.8.6 - RMI 19

Menu 11150 equals the settings for RMI 17 (11340).

#### 3.8.7 - Multi-input selections

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>10970 Engineering units</b>						
10970	Engineering units	Bar/Celsius Psi/Fahrenheit	Bar/Celsius			
<b>10980 Multi-input configuration 14</b>						
10980	Multi inp. conf. 14	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary
<b>10990 Multi-input configuration 15</b>						
10990	Multi inp. conf. 15	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary

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### Alarms and Parameters list

No.	Setting	Min. Max.	Factory setting	Notes	Ref.	Description
<b>11000 Multi-input configurable 16</b>						
11000	Multi inp. conf. 16	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary
<b>11300 Multi-input configurable 17</b>						
11300	Multi inp. conf. 17	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary
<b>11310 Multi-input configurable 18</b>						
11310	Multi inp. conf. 18	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary
<b>10980 Multi-input configuration 19</b>						
10980	Multi inp. conf. 19	4-20 mA Binary	Binary			Possible selections: 4-20 mA Pt100 Pt1000 RMI oil pressure RMI water temp RMI fuel level Binary

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### Disposal and recycling instructions

We are committed to limiting the environmental impact of our activity. We continuously monitor our production processes, material sourcing and product design to improve recyclability and minimise our environmental footprint.

These instructions are for information purposes only. It is the user's responsibility to comply with local legislation regarding product disposal and recycling.

All materials listed above need special treatment to separate waste from reclaimable materials and should be entrusted to specialist recycling companies.

### Waste & hazardous materials

The following components and materials require special treatment and must be separated from the alternator before the recycling process:

- electronic materials found in the terminal box, including the automatic voltage regulator (198), current transformers (176), interference suppression module and other semi-conductors.
- diode bridge (343) and surge suppressor (347), found on the alternator rotor.
- major plastic components, such as the terminal box structure on some products. These components are usually marked with information concerning the type of plastic.



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# Service & Support

Our worldwide service network of over 80 facilities is at your service.

This local presence is our guarantee for fast and efficient repair, support and maintenance services.

Trust your alternator maintenance and support to electric power generation experts. Our field personnel are 100% qualified and fully trained to operate in all environments and on all machine types.

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Where we can help:



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