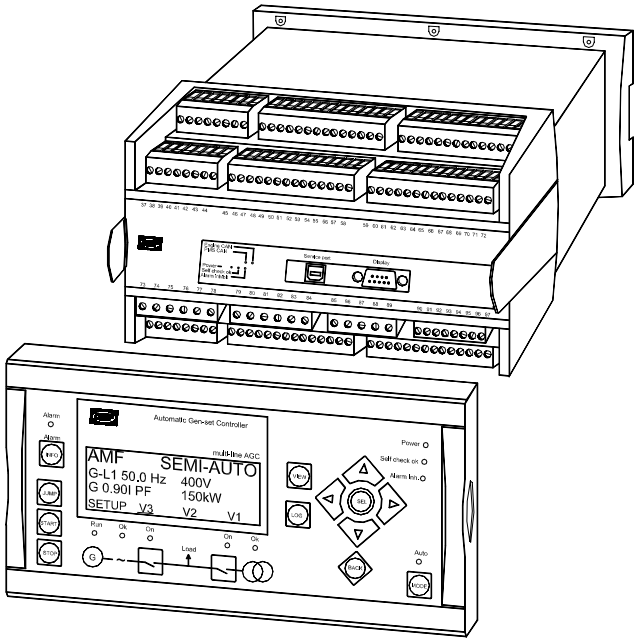
DEIF A/S

Description of options

Option M14.x, Configurable I/O extension cards 4 relay outputs Multi-line 2

4189340450A
SW version 3.0X.X



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1. Warnings and legal information

Legal information and responsibility

DEIF takes no responsibility for installation or operation of the generator set. If there is any doubt about how to install or operate the generator set controlled by the unit, the company responsible for the installation or the operation of the set must be contacted.

The units are not to be opened by unauthorised personnel. If opened anyway, the warranty will be lost.

Electrostatic discharge awareness

Sufficient care must be taken to protect the terminals against static discharges during the installation. Once the unit is installed and connected, these precautions are no longer necessary.

Safety issues

Installing the unit implies work with dangerous currents and voltages. Therefore, the installation should only be carried out by authorised personnel who understand the risks involved in working with live electrical equipment.

Be aware of the hazardous live currents and voltages. Do not touch any AC measurement inputs as this could lead to injury or death.

Definitions

Throughout this document a number of notes and warnings will be presented. To ensure that these are noticed, they will be highlighted in order to separate them from the general text.

Notes

The notes provide general information which will be helpful for the reader to bear in mind.

Warning

The warnings indicate a potentially dangerous situation which could result in death, personal injury or damaged equipment, if certain guidelines are not followed.

2. Description of option

M14.x option

Option M14 is a hardware option and therefore a separate PCB is installed in addition to the standard-installed hardware. M14.6 is installed in slot #6 and M14.8 is installed in slot #8.

ANSI numbers

Function	ANSI no.
4 x configurable relay outputs for alarms or limit switches	74

Terminal description

Option M14.6

Term.	Function	Technical data	Description
90	NO	Relay 90 250V AC/5A	Configurable
91	Com.		
92	NO	Relay 92 250V AC/5A	Configurable
93	Com.		
94	NO	Relay 94 250V AC/5A	Configurable
95	Com.		
96	NO	Relay 96 250V AC/5A	Configurable
97	Com.		

Option M14.8

Term.	Function	Technical data	Description
126	NO	Relay 126 250V AC/5A	Configurable
127	Com.		
128	NO	Relay 128 250V AC/5A	Configurable
129	Com.		
130	NO	Relay 130 250V AC/5A	Configurable
131	Com.		
132	NO	Relay 132 250V AC/5A	Configurable
133	Com.		

The above relay numbers are to be used when selecting the specific relay.

3. Functional description

Relay setup

Each relay has a function and an OFF delay setting as described below.

Function:

Alarm relay
When the relay is activated, an alarm is displayed. The relay will remain activated for as long as the alarm is present and unacknowledged.

Limit relay
When the relay is activated, no alarm message is displayed. After the condition activating the relay has returned to normal, the relay will deactivate, when the 'OFF delay' has expired.

Horn relay
When the relay is activated, an alarm message is displayed. The relay will be activated until the time set in menu 6130 'Alarm horn' has expired or the alarm activating the relay has been acknowledged.

OFF delay:

The 'OFF delay' is the time between the disappearance of the event that caused the relay to activate and the actual deactivation of the relay.

It is possible to configure the relay outputs to be used for speed and/or voltage regulation. Please refer to the Designer's Reference Handbook.

The relays can also be used together with M-logic. Please refer to the Help function in the PC utility software.

4. Parameter list

For further information about the structure of the parameter descriptions, please see the Designer's Reference Handbook.

Option M14.6

5190 Relay 90

No.	Setting		First setting	Second setting	Third setting	Factory setting
5191	Relay 90	Function	Alarm	Limit	Horn	Alarm
5192	Relay 90	OFF delay	0.0 s	999.9 s	-	5.0 s

5200 Relay 92

No.	Setting		First setting	Second setting	Third setting	Factory setting
5201	Relay 92	Function	Alarm	Limit	Horn	Alarm
5202	Relay 92	OFF delay	0.0 s	999.9 s	-	5.0 s

5210 Relay 94

No.	Setting		First setting	Second setting	Third setting	Factory setting
5211	Relay 94	Function	Alarm	Limit	Horn	Alarm
5212	Relay 94	OFF delay	0.0 s	999.9 s	-	5.0 s

5220 Relay 96

No.	Setting		First setting	Second setting	Third setting	Factory setting
5221	Relay 96	Function	Alarm	Limit	Horn	Alarm
5222	Relay 96	OFF delay	0.0 s	999.9 s	-	5.0 s

Option M14.8

5230 Relay 126

No.	Setting		First setting	Second setting	Third setting	Factory setting
5231	Relay 126	Function	Alarm	Limit	Horn	Alarm
5232	Relay 126	OFF delay	0.0 s	999.9 s	-	5.0 s

5240 Relay 128

No.	Setting		First setting	Second setting	Third setting	Factory setting
5241	Relay 128	Function	Alarm	Limit	Horn	Alarm
5242	Relay 128	OFF delay	0.0 s	999.9 s	-	5.0 s

5250 Relay 130

No.	Setting		First setting	Second setting	Third setting	Factory setting
5251	Relay 130	Function	Alarm	Limit	Horn	Alarm
5252	Relay 130	OFF delay	0.0 s	999.9 s	-	5.0 s

5260 Relay 132

No.	Setting		First setting	Second setting	Third setting	Factory setting
5261	Relay 132	Function	Alarm	Limit	Horn	Alarm
5262	Relay 132	OFF delay	0.0 s	999.9 s	-	5.0 s