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# Control/Repeater Panel M 4.3

Part no. 5100195

System: TERRA FIRE

#### General Description

The Control/Repeater Panel M 4.3 is a control panel with a 4.3" graphical colour display used to manage and supervise a system. Control/Repeater Panel M 4.3 mounts on any flat surface independently from a fire alarm cabinet.

Control/Repeater Panel M 4.3 is equipped with communication buses for connecting to the system, and it provides the following features:

- A backlit 4.3" graphical colour display
- Alarm buzzer
- LED status indicators
- Backbone Bus Interface
- Ethernet connection
- RS-422/RS-485 interface
- RS-232/RS-485 interface
- Three USB interfaces
- Two configurable powered I/Os
- Two programmable relay outputs

Refer to the User Guide for more information on operating Control/Repeater M 4.3.

For details on assembling a system and definitions of common system terms, refer to the Installation Manual.

#### Part No.

Control/Repeater M 4.3 TERRA FIRE 5100195-xxA

Control/Repeater M 4.3 Brand SE 5100195-70A

Control/Repeater M 4.3 TERRA FIRE 5100195-71A

DK

Control/Repeater M 4.3 5100195-72A Servoteknikk CS5000 NO

#### Data

Operating voltage 19-30 VDC

range

Current consumption Normal 100 mA (at 24V) Max. 270 mA

Ingress protection IP22

Operating -5°C to +55°C

temperature range

Weight 1250g

Display 4.3", 480×272 pixels, TFT Ethernet 10/100 Mbit, autosense

USB Host USB 1.1

1 in front, 1 on back

USB Device USB 1.1

1 on back

Relays rating Max. 30 VDC, 500 mA

I/O 70 (as input) 24 VDC

5-70 mA

I/O 70 (as output) 24 VDC

Max. 70 mA

Cable terminals 2.5 mm<sup>2</sup> SD Memory (Optional)

Certified according to ROHS

EN 54-2 (1999/A1:2006)

EN 60945

**( 6**<sub>09 2531-CPD-232.1686 DOP no.6301900</sub>

#### **Indicators**

Control/Repeater Panel M 4.3 indicators display system status. Refer to the User Guide for more information.

The specifications described herein are subject to change without notice.

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## Hot-Swap Replacement of the Module

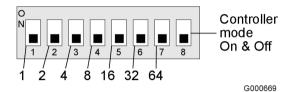
Replace this module following these steps:

1. Remove all cable connections form the module

- 2. Address the Module DIP-Switch settings using old module as a guide.
- 3. Move the Micro SD memory from the old module, if installed, to new module.
- 4. Plug in all cable connections back.

#### Address Switch

This switch (see SW2 in figure Connection board) identifies modules in the system and sets the function. Control modules can serve as Bus Masters, i.e., operate in Controller Mode or in Managed Mode, for example repeaters and protocol converters. Address 1 and 2 are dedicated for control modules in Controller Mode. One control module per central shall be set in Controller Mode. If the system shall be reduntant it is required to have a second control module, also set in Controller Mode. Modes for Managed and Controller are set with DIP switches as described in the following table:



	Managed Mode	Controller Mode
DIP 8	Controller Mode (off)	Controller Mode (on)
DIP 7	Module	Spare
DIP 6	Address (3-125)	Master (on/off)
DIP 5		Central
DIP 4		Address (1-30)
DIP 3		(130)
DIP 2		
DIP 1		

Control Modules have two different modes of operation, as determined by their DIP settings (normally pre-set from factory):

#### Controller Mode

#### Single Central System:

Central 1 Primary (automatically module address 1)

Central 1 Secondary (optional) (automatically module address 2)

O Centr	al Ad	dress				
N 🔳						
1 2	3	4	5	6	7	8

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#### Multi Central System:

Central 1 Primary
(automatically module address 1)



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#### **Connections**

Control/Repeater Panel M 4.3 mounts outside of the central. Using ribbon cables, connect the Control/Repeater Panel M 4.3 to Terminal M (pre-fitted inside the Control/Repeater Panel M 4.3 casing, see Module Dimensions (mm)). All Control/Repeater Panel M 4.3 connections are made on the Connection board, located at the back of the front panel. See figure Connection board.

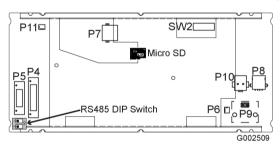


Figure 1. Connection board

Connector no.	Function	Description
P4	Connection to Terminal M	20-pol. Flat Cable *
P5	Connection to Terminal M	10-pol. Flat Cable *
P6		Door Switch
P7		Ethernet
P8	Type A/ Host	USB
P9		USB Expansion Board
P10	Type B/ Device	USB
P11		External Buzzer (24V)

<sup>\*</sup> See illustration below for connection to Terminal M.

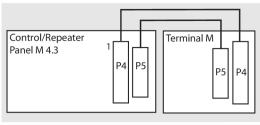
The specifications described herein are subject to change without notice.

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[	CONTROL/REPEATER M 4.3										_																								
	BACKBONE BUS EXTERNAL CONNECTIONS:												NS:																						
		1	2		1	2	2			1		2		1		2			4			3			4		1		2			3	3		
BASIC BACKUP SIGNAL		BACKBONE BUS EXTERNAL IN (RS485)	IN (RS485)	<u>7</u>	POWER SUPPLY	IN 24VDC	POWER SUPPLY	BASIC BACKUP SIGNAL			BACKBONE BUS EXTERNAL	OUT (RS485)	BACKBONE BUS EXTERNAL	TO NEXT CONTROL/REPEATER		POWER SUPPLY OUT 24VDC	RS RS	422T	NE 4	ISOI ATED SERIAL	!Rx	PROGRAMMABLE OUTPUT	RELAY 30VDC/Max. 0.5A	PROGRAMMABLE OUTPUT	RELAY 30VDC/Max. 0.5A		PROGRAMMABLE OUTPUT	I/O 70	PROGRAMMABLE OUTPUT		RS:	INTERFACE CHANNEL 3	ERIAL		
BBU	*	φ p	₽ (	7 4	<b>;</b>	<b>4</b>	<b>-</b>	BBU	*	D+	P	₽	P	<b>\$</b> \$	< 4	<b>:</b> <	₽	P	SG_4**	₽	P	С	NO	30/	0.5	Ā	24 70m +		<b>24V</b> 70mA + -	×	R <sub>X</sub>	CTS	SG_3***	₽	P
_	2	ω 4	5	ი -	7 8	9	10	11	12	13	14	15	16	17	<u>د</u>	20	21	22	23	24	25	26	27	28	29	30	31	32	33	35	36	37	38	39	40

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Figure 2. Terminal M

- \* Do not connect to this terminal!
- \*\* Terminal 23 is signal ground for channel 4, marked "GNDB" on PCB.
- \*\*\* Terminal 38 is signal ground for channel 3, marked "GNDA" on PCB.

# RS485 Termination of Serial Interface 3 & 4

For RS485 termination of channel 3 and channel 4 the built-in resistor (120 ohm) can be activated with the RS485 DIP switch located on the Connection board (see figure in section Connections).

For recommendations and examples on RS485 termination, refer to the Installation Manual.

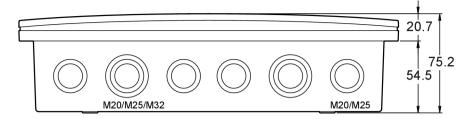


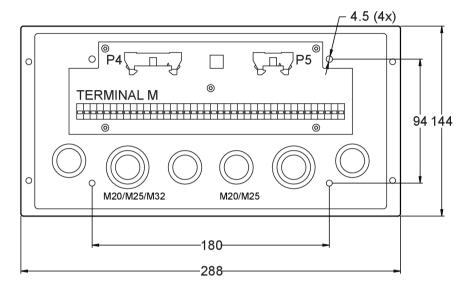
Table 1. DIP switch for RS485 termination

DIP Switch No.	Description	ON	OFF
1	Channel 3	Active	Deactivated
2	Channel 4	Active	Deactivated

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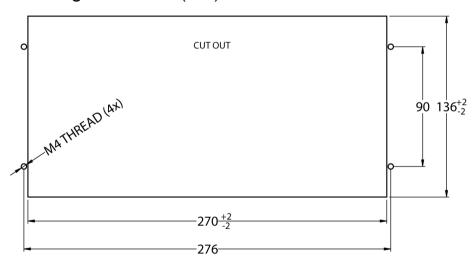
### Module Dimensions (mm)





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### Mounting Dimensions (mm)



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