

G015200

# Control M X

Part no. 5100001, 5100002

System: TERRA FIRE, CGD50/500

## General Description

Control M X is used in three different ways:

- As a central backup controller (Slave) in a Fire detection system or Gas detection system.
- As a provider of additional communication channels, additional external communication, or as an extension bus.

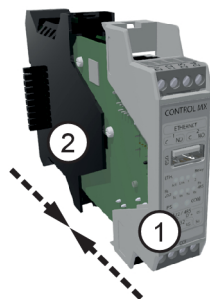
A Control M X provides the following features:

- Ethernet connection
- RS-422/RS-485 interface
- RS-232/RS-485 interface
- Two programmable relay outputs
- USB host interface (see section USB Host)

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

### About the datasheet

This data sheet contains product information for the following units (1) and (2):



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Item	Part name
1	PCB module
2	Housing

## Data

Operating voltage range	19-30 VDC
Current consumption (at 24V)	62 mA
Cable terminals	2.5 mm <sup>2</sup>
Operating temperature range	-5°C to +55°C
Weight (with housing)	150g
Certified according to	CE <sub>09</sub>

2531-CPR-232.1686  
DOP No.6301900

### Parts Fire SW:

Item	Part name	Part no.
1 & 2	Control M X module: With housing assembled	5100002-02A
1 + 2	Control M X module: With housing separate	5100002-01A
1	Spare part: Without housing	5100001-03A
2	Spare part: Housing	5100102-01A

### Parts Gas SW:

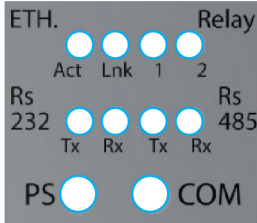
Item	Part name	Part no.
1 & 2	Control M X module: With housing assembled	5100001-22A
1 + 2	Control M X module: With housing separate	5100001-21A
1	Spare part: Without housing	5100001-20A
2	Spare part: Housing	5100102-01A

## Settings

The module is identified by a physical address on the Backbone Bus. The address is set with an 8-pole DIP switch.

## Indicators

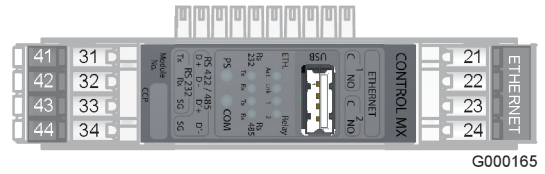
Control M X indicators display communication and power status.



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Indicators	Indicator Colour	Status
Ethernet - Lnk (Link connected)	Green	OK
	None	No communication
Ethernet- Act (Activity)	Green	OK
	None	No communication
Relay 1-2	Green	ON
	None	Not active
RS232 Tx-Rx	Green	OK
	None	No communication
RS485 Tx-Rx	Green	OK
	None	No communication
PS (Power Supply)	Green	OK
	Yellow	Power Fault
COM (Communication)	Green	OK
	Yellow	Faulty communication
	None	No communication

## Connections



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CONTROL M X ADDRESS:		1	2	3	4
ETHERNET CHANNEL	ETHERNET CHANNEL	PROGRAMMABLE OUTPUT	RELAY 30VDC/Max. 1A	ISOLATED SERIAL INTERFACE CHANNEL	ISOLATED SERIAL INTERFACE CHANNEL
	ETHERNET CHANNEL	PROGRAMMABLE OUTPUT	RELAY 30VDC/Max. 1A	ISOLATED SERIAL INTERFACE CHANNEL	ISOLATED SERIAL INTERFACE CHANNEL
ETHERNET	ETHERNET	ETHERNET	ETHERNET	ETHERNET	ETHERNET
RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45

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## USB Host

The module is equipped with USB host contact (type A). USB interface features BIOS and firmware updates.



### NOTE!

USB interface is supported by Fire Firmware release 1.8.50 (BIOS R2n) or later.

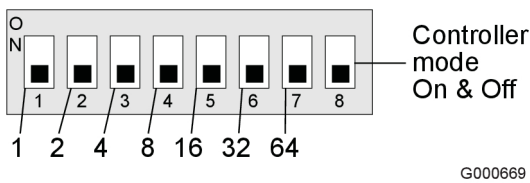
## Hot-Swap Replacement of the Module

Replace this module following these steps:

1. Remove the old module from its holder.
2. Address the new module DIP-Switch settings using old module as a guide.
3. If installed, move the Micro SD memory from the old module to the new module.
4. Plug the new module back into its holder.

## Address Switch

This switch identifies modules in the system and sets the function. Control modules can 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 redundant 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:



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	Managed Mode	Controller Mode
DIP 8	Controller Mode (OFF)	Controller Mode (ON)
DIP 7	Module Address (3-125)	Spare
DIP 6		Master (ON/OFF)
DIP 5		Central Address (1-30)
DIP 4		
DIP 3		
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

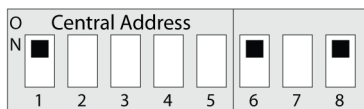


**NOTE!**

Control M X can not be used in Primary mode.

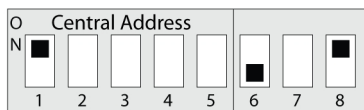
### Single Central System:

Central 1 Primary  
(automatically module address 1)



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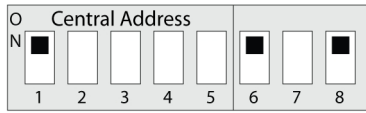
Central 1 Secondary (optional)  
(automatically module address 2)



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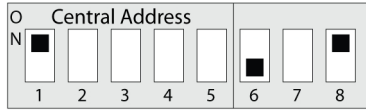
### Multi Central System:

Central 1 Primary  
(automatically module address 1)



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



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Central 30 Primary  
(automatically module address 1)



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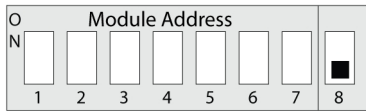
Central 30 Secondary (optional)  
(automatically module address 2)



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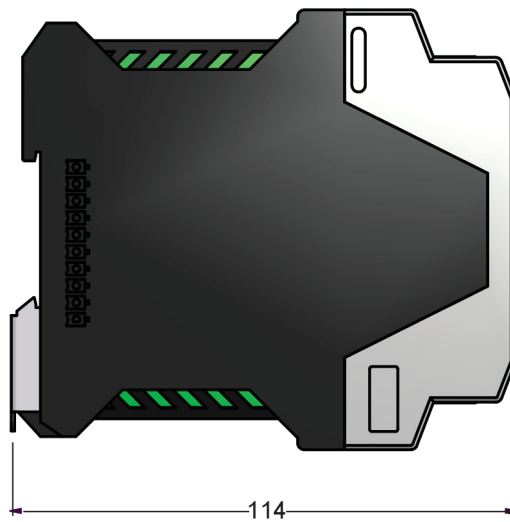
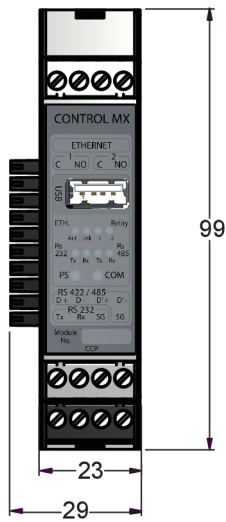
**Managed Mode**

Module Address 3-125



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**Module Dimensions (mm)**



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**Mounting**

Mount the module on a horizontal 35 mm DIN rail.