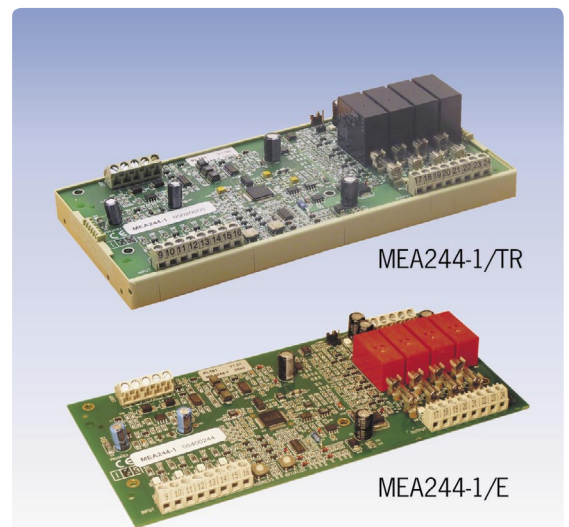


Multi Module

MEA244-1

- **ADM loop technology with System Sensor/200 protocol**
- **4 independent line-monitored inputs**
- **4 independent outputs with patented monitoring of line resistance and load resistance**
- **Optimized for use in extinguishing systems**
- **Supply supervised for undervoltage**



Description

The Multi Module MEA244-1 has been designed especially for use in extinguishing systems. It has 4 independent inputs for connection of contact detectors, and 4 independent, powerful outputs for actuation of external control devices.

The inputs are monitored to detect wire breakages and short circuits of the connection leads. On the outputs the internal resistances of the control devices and the line resistances are monitored separately. An automatic calibration procedure, which gets started by pressing a key during commissioning, determines the reference values of both resistances. The patented method of multiple monitoring makes the reliable detection of line or load faults as well as contact corrosion possible.

The multi module is used as loop element with integrated dual-isolator, in an ADM loop with System Sensor/200 protocol. The module occupies 8 consecutive

addresses on the ADM loop. During commissioning, the base address, which is assigned to input 1, gets entered using a key, all further addresses are automatically assigned by the module.

The MEA244-1 and the connected control devices are supplied through an external 24V power supply. The supply voltage gets supervised for undervoltages. If the voltage drops below the threshold of the undervoltage detection, then this event is automatically signalled to the control panel, via the loop, as fault of all four outputs. Each input and each output has a status LED.

The multi module is available in two versions:

- The MEA244-1/TR has been designed for mounting on a DIN rail,
- the MEA244-1/E can be mounted in a control panel using the supplied mounting spacers.



Specifications

| | |
|--|--|
| Supply voltage | 20 to 30VDC |
| Threshold of undervoltage detection | 21.7V (can be increased to 25.3V by using a jumper) |
| Current consumption at 24V | 35mA (quiescent)/max. 160mA (without load) |
| Current consumption on the loop | 500µA |
| Number of inputs / outputs | 4 / 4 |
| Load current per output | max. 1.5A |
| Ambient temperature MEA244-1 | -5°C to +60°C |
| Ambient temperature external control equipment | +5°C to +50°C (to ensure the functioning of the fault detection) |
| Patent number | AT 501 215 B1 |
| Approval | VdS G205120 |

Multi module for mounting on rail

| | |
|----------------------|--|
| Dimensions L x W x H | 196 x 97 x 56 (mm) |
| Weight | 310g |
| Order number | 249092 |
| Order name | Multi Module/Mounting Rail MEA244-1/TR |

Multi module for mounting in control panel

| | |
|----------------------|--|
| Dimensions L x W x H | 194 x 93 x 20 (mm) |
| Weight | 150g |
| Order number | 249095 |
| Order name | Multi Module/Panel Mounting MEA244-1/E |



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