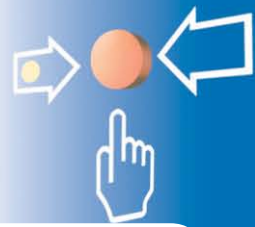
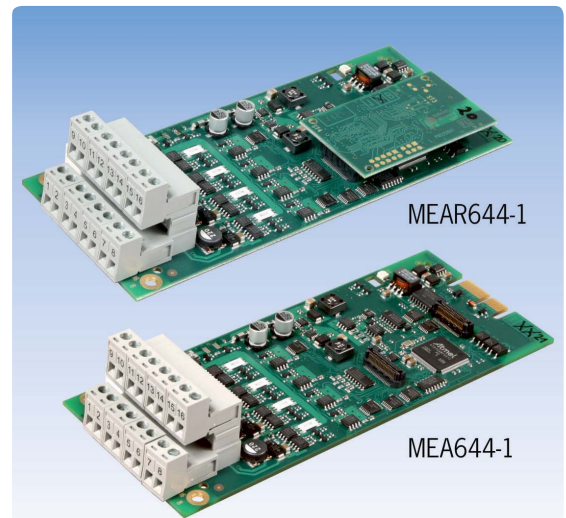


Input/Output Interface

MEA644-1, MEAR644-1



- 4 conventional lines, monitored for wire breakage and short circuit
- 4 powerful outputs with patented monitoring of line resistance and load resistance
- Supply voltage monitored for undervoltage
- Optimised for use in extinguishing systems
- „Plug & play“ during operation



Description

The Input/Output Interface MEA644-1 is designed for the actuation and monitoring of components of an extinguishing system. The module unit expands a Fire Detection Control Panel Series BC600 by

- 4 conventional lines for the connection of contact detectors (e.g., sprinkler system contacts, supervising contacts) – they are monitored for wire breakage and short circuit
- 4 outputs for the connection of control devices (e.g., solenoid valves, relay coils) – they are separately monitored for a change in line resistance and load resistance. The patented method of multiple monitoring allows reliable detection of line faults or load faults.

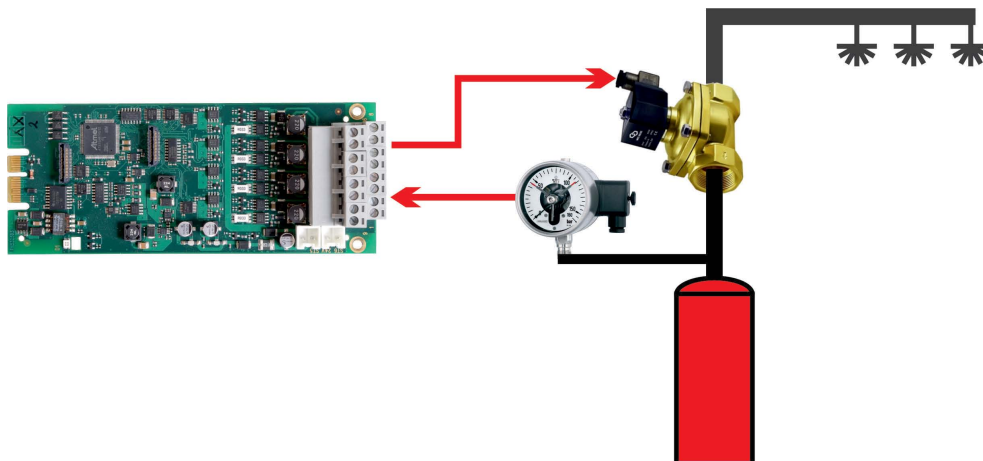
The MEA644-1 is equipped with a processor of its own. At a possible central processing board failure, the diversified redundancy concept thus ensures reliable alarm recognition. Each input and output of the input/output

interface is protected against overvoltage, thereby providing high system stability.

The input/output interface is actuated via the system bus of the control panel. The system bus is also used for updating the firmware and transmitting the parameters. The system bus interface is galvanically isolated, the module is powered by an external power supply.

The „hot plug & play“ function allows the module to be connected or removed during normal operation, the componentry is detected automatically by the central processor. The condition of the bus communication and of the componentry is indicated by an integrated light emitting diode.

Maintenance and the exchange of the componentry are made easier by the use of pluggable screw terminals for the connections.



VdS

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Redundant version

The Input/Output Interface MEAR644-1 in redundant design offers the same range of features as the module unit MEA644-1. However, in the event of a failure of the main processor, the integrated redundant processor takes on the handling of the inputs and outputs.

Therefore, the redundant input/output interface is ideally suited for systems with especially high demands on the failure safety.

Specifications

Operating voltage, external	20 – 30VDC
Load current per output	max. 1.5A
Ambient temperature	-20°C to +60°C
Ambient temperature of control devices	(to ensure the functioning of the fault detection) +5°C to +50°C
Dimensions L x W x H	160 x 65 x 35 (mm)
Patent number	AT 501 215 B1

Input/Output Interface MEA644-1

Current consumption at 24V	typ. 34mA (without detectors and end-of-line elements)
Weight	90g
Order number	211141
Order name	Input/Output Interface MEA644-1

Input/Output Interface Redundant MEAR644-1

Current consumption at 24V	typ. 40mA (without detectors and end-of-line elements)
Weight	100g
Order number	211142
Order name	Input/Output Interface Redundant MEAR644-1

