

# M-BUSMASTER XF

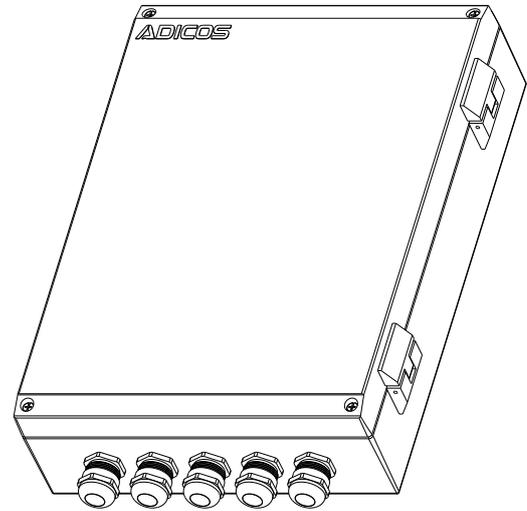
M-Bus Interface for ADICOS  
Special Fire Detectors

## Characteristics

- Robust design due to aluminum diecast enclosure
- High resistance to moisture and dust (IP65)
- Communication with up to 255 detectors
- Integrated overload protection
- Serial interface for operating the detector system with a service-PC and the ADICOS system software
- Ethernet interface optional
- Central data acquisition and visualization via PC software
- Repeater function for range extension
- Connection option for 24 V UPS

## Applications

- Industrial plants, that are to be equipped with ADICOS special fire detectors.
- Systems, in which the service-PC must be physically separated from the central processing unit and must be connected via a local network (applies to the Ethernet variant).



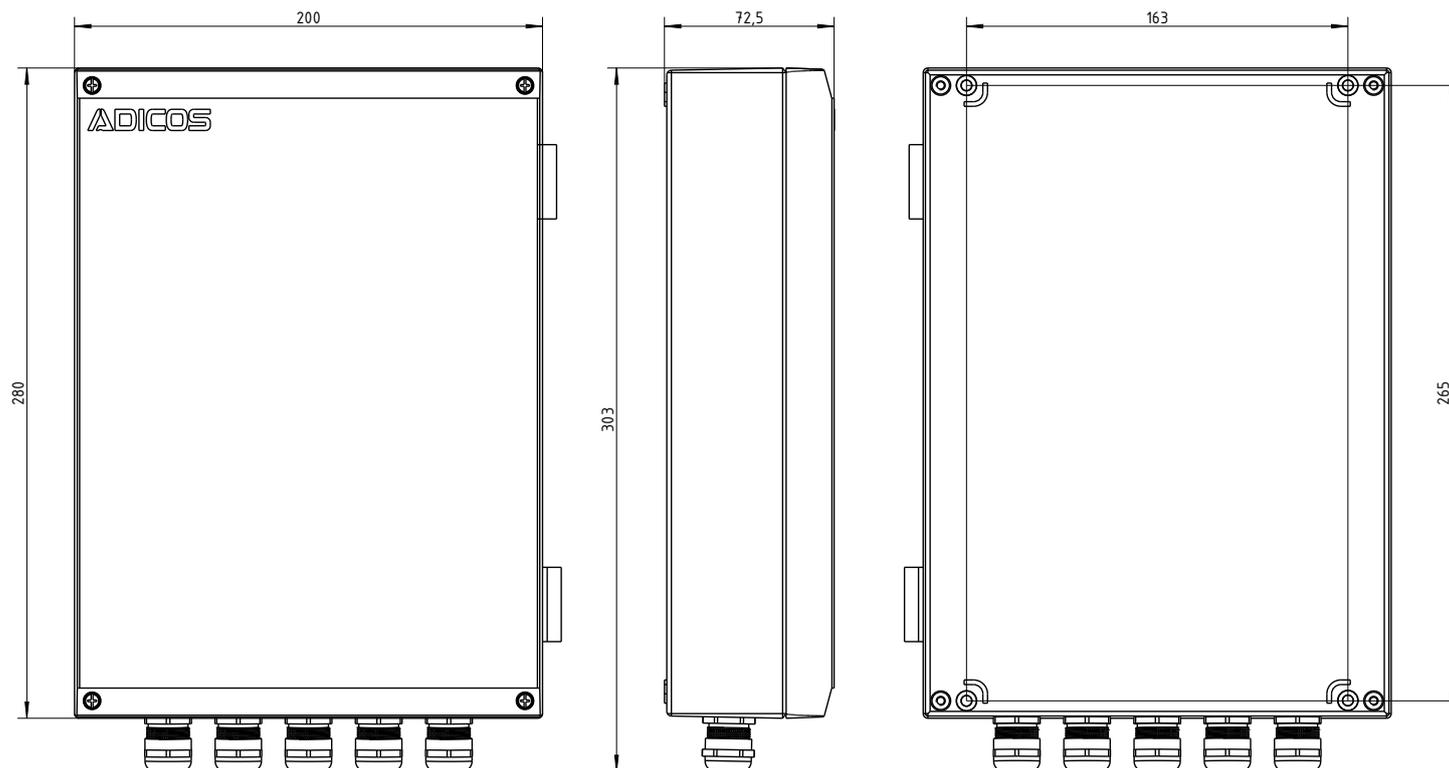
The ADICOS M-BUSMASTER XF is the central interface of the Advanced Discovery System (ADICOS) which is used for early fire detection in industrial environments. It provides communication signals for up to 255 ADICOS detectors and connects the ADICOS installation to the service-PC. This connection is based on RS-232 serial interface by default. Ethernet extension modules are available as an option.

In combination with the ADICOS Central Software, the service-PC allows a sophisticated monitoring of the state of operation of all detectors in the system. In addition to a system overview, each detector can be addressed individually for advanced data-logging and parametrization features. In this way alarm thresholds and sensitivities can be adapted perfectly to the atmosphere around the specific detector. Displaying and analysing gas concentration curves or temperature gradients is also a key feature of the software.

The M-BUSMASTER XF has an integrated power supply, which is operated with AC 230 V mains. As an alternative it has an input for an uninterruptible power supply with DC 24 V to protect the system against temporary mains failure. To deal with very large distances the ADICOS M-BUSMASTER XF can be operated as an M-Bus repeater. Its sturdy design in an aluminum diecast enclosure allows installation directly within extremely dusty or humid atmospheres.

# M-Busmaster XF - Specifications

## Mechanical dimensions



All dimensions in mm

## Mechanical characteristics

|                      |                           |
|----------------------|---------------------------|
| Enclosure            | Coated aluminum diecast   |
| Dimensions           | 72.5 mm x 208 mm x 303 mm |
| Weight               | 3.3 kg                    |
| Degree of protection | IP 65                     |

## Thermal characteristics

|                   |                         |
|-------------------|-------------------------|
| Relative humidity | ≤ 95 % (non-condensing) |
| Temperature range | -10 ... +60 °C          |

## Electrical characteristics

|                          |   |
|--------------------------|---|
| Mains supply voltage     | AC 230 V ± 10 %                                 |
| Mains fuse               | 1 A slow blow                                   |
| UPS input voltage        | DC 20 ... 27 V                                  |
| UPS input fuse           | 4 A slow blow                                   |
| Max. power consumption   | 65 VA   |
| Output voltage M-Bus     | DC 38 ... 40 V                                  |
| Output fuse M-Bus        | 2.5 A slow blow                                 |
| Max. output power M-Bus  | 60 W (internal output current limitation 1.5 A) |
| Baudrate M-Bus           | 4800 baud                                       |
| Max. line length M-Bus   | ≈ 2 km at 4800 baud                             |
| Max. line length RS-232  | 2.5 m   |
| Max. amount of detectors | 255   |

# M-Busmaster XF – Application

## ADICOS topology concept

