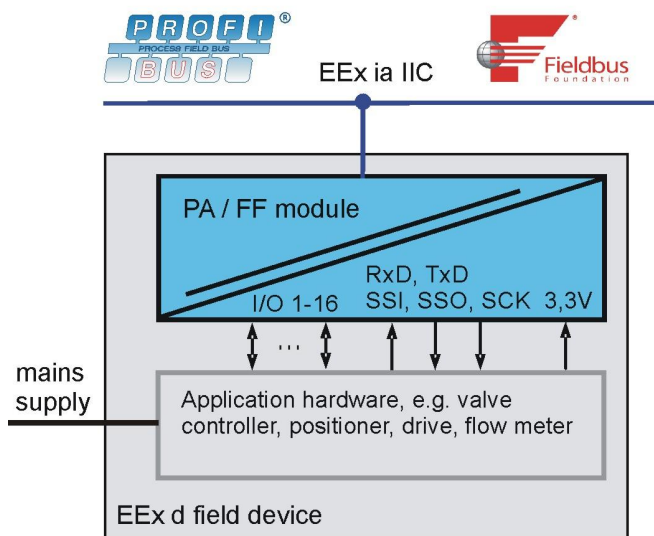


# PROFIBUS PA<sup>®</sup> / FOUNDATION FIELDBUS<sup>®</sup> Hardware Design Package (H1-4W) incl. discrete MAU

## Overview

The PROFIBUS PA/Foundation Fieldbus Hardware Design Package includes the schematics and development documentation etc. for a small size universal fieldbus interface. It provides fieldbus functionality for separately powered field devices. The H1-4W design separates the I.S. fieldbus from the non-I.S. application hardware and allows for explosion-proof devices to be connected to an I.S. fieldbus segment.

## Block Diagram



## Key Features

A powerful internal CPU and substantial resources to integrate complex PROFIBUS PA profiles or LAS function for Foundation Fieldbus are main features. The Medium Attachment Unit (MAU) is implemented as a discrete circuit, which allows to replace the discontinued SIM1 and  $\mu$ SAA22Q ASICs with standard components.

## Technical Data

- Fieldbus interface IEC 61158-2
- Fieldbus current <12mA
- Galvanic isolation 1,500V DC
- T<sub>A</sub> -40°C...+85°C
- Design according to ATEX 95 (IEC 60079-0, IEC 60079-11, FISCO IEC 60079-2)
- Renesas M16C62 microcontroller
- 256kB Flash, 256kB RAM, 8kB EEPROM
- Sync./async. serial interface
- 16 I/Os (3 interrupts)
- Size (LxWxH): 40.0 x 55.0 x 10.5mm

## Delivery Content

- Circuit schematics
- Bill Of Material (BOM)
- Hardware & I.S. design documents incl. calculations
- Test documents
- 1 day support during implementation
- **Discrete MESCO MAU**
- 1 Evaluation board

## Related Services and Products

- Hardware: OEM modules
- Library: I&M Function Access for PROFIBUS PA
- Implementation of HW and SW for PROFIBUS PA/Foundation Fieldbus
- Implementation of certain specific application interfaces
- Test: Slave device conformance test in fieldbus laboratory

## Order Information

No. 42003