

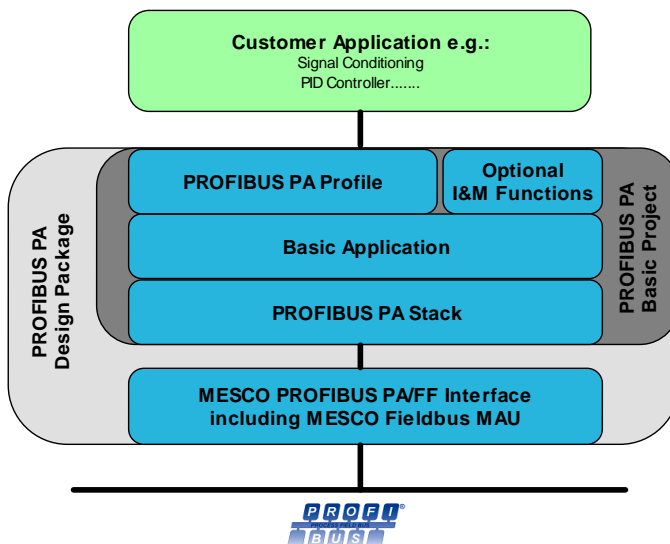
PROFIBUS PA Design Package

Overview

The PROFIBUS PA Design Package is your quick start into a PROFIBUS PA slave development. This package reduces your time for project setup and implementation. It minimizes the project risk by factors.

The PROFIBUS PA Design Package consists of a MESCO PA standard application with stack in source, MESCO PA/FF HW Interface (2 or 4 wire) incl. MESCO discrete Fieldbus MAU.

Block diagram



Delivery Content

- Basic application example project with source code
- Batch Files for build process
- Protocol stack with source code
- GSD-File
- PLC project for Siemens S7-315
- Circuit schematic, bill of materials (BOM)
- HW + I.S. design document incl. calculations
- Test documents

Related Services

- Implementation of customer specific hardware
- Implementation of firmware, stack and PA profiles
- Support of IS certification
- Parameterization software FDT / DTM / EDDL

Technical Data

- Standard PROFIBUS services for cyclic communication
- Extended acyclic PROFIBUS services DP-V1 for MSAC-C2
- PROFIBUS profile for process control devices V3.01 integrated: Analog Input Function Block, Physical Block, Transducer Block example for temperature and pressure devices
- Parameter database
- Runtime system with memory checks

H1-IS (2-wire) PROFIBUS PA Interface

- Renesas M16C62P family with SIEMENS SPC4-2 ASIC
- 256kB Flash, 256kB RAM, 8kB EEPROM
- Fieldbus interface IEC 61158-2
- Current consumption PROFIBUS PA < 12 mA
- Internal Fault Disconnect Equipment
- Galvanic isolation 500V DC
- Operating temperature: -40...+85 °C
- Designed according to ATEX 100a (EN50014, EN50020), FISCO conform
- I.S. Specification: EEx ia IIC T4/T6 with T4: TA = -40...80 °C T6: TA = -40...50 °C $U_i \leq 24 \text{ V}$, $I_i \leq 380 \text{ mA}$, $P_i \leq 5,32 \text{ W}$
- Supply to customer HW: 3,3 V / 3,5 mA
- Synchron. / Asynchron. Serial Interface
- 16 I/O (3 Interrupt)
- Connector 1,27mm Pitch PCB Pinheader
- Completely Encapsulated Module
- Size (LxWxH): 75 x 40 x 14 mm

Optional

- I&M Function Access Library
- The HW interface also is available as 4 wire design package (H1-4W)

Order Information

No. 92001