RMP422Si is an RBUS IO module with 32 HART enabled analog input field channels for use in safety applications. The input channels are individually software configurable for the appropriate signal type and parameters. The module has extended loop monitoring including current leak detection on each channel. The module is certified for use in hazardous area zone 2.

**MODULE FEATURES**

Approved for safety applications:
- SIL2 in single configuration
- SIL3 in redundant 1oo2 configuration
- Online software configurable
- Transparent HART communication
- HART variables for use in control application
- Suited for use in hazardous area zone 2
- Spare part for RMP422S
- Over-voltage protection
- Extensive module diagnostic
- Easy installation and replacement
- Simple and safe FW upgrade
- Status LED

**SIGNAL TYPES**

Analog input HART (2/3/4 wire, 4-20mA, 0-10V)
HART variables (max. 16 variables, 1-8 channels)

**I/O CHANNELS**

- 32 analog input field channels
- Current leak detection
- Extended loop monitoring
- Internally or externally powered
- Short-circuit proof
- Configurable soft fail-safe on outputs
**TECHNICAL SPECIFICATIONS**

**KM Part no.**
RMP422Si 408406

**Electrical**
- **Supply voltage:** 24 VDC (18-31.2V)
- **Consumption:** 10 W Typical
- **Max total load:** 16A
- **RBUS connectors:** 2x9-pin male D-Sub
- **Power and IO connectors:** Screw terminals, max. 2.5 mm²

**Analog input volt (NOT FOR SIL APPLICATIONS)**
- Internally or externally powered: 0 - 10V
- **Accuracy:** ±0.1% of full scale

**Analog input current**
- Internally or externally powered: 0 - 24mA
- **Input resistor:** 300 Ω
- 3-wire option, internally powered: 1 A
- **Overcurrent protection:** (30 mA/1 A)
- **Measurement accuracy:** ±0.15% of full scale
- **Safety accuracy:** < +/- 1% of full scale

**RBUS interface**
Dual 9 pin male D-Sub, RS485, galvanic isolated

**Compliance**
- IACS E10
- DnV GL 2.4
- IEC 60945
- RoHS Directive 2011/65/EU
- EMC Directive 2014/30/EU
- ATEX Directive 2014/34/EU (II 3G Ex ec IIC T4 Gc)

**Approvals**
- Presafe 18ATEX 12094X

**Environmental**
- Ambient temperature (operation): -15°C to 70°C
- Temperature (storage): -25°C to 70°C
- Humidity (operation): max. 95% RH, non condensing
- Humidity (storage): max. 95% RH, non condensing

**IP20 (IEC 60529)**

**Mechanical**
- **Width:** 158 mm
- **Depth:** 87 mm
- **Weight:** 1.35 kg
- DIN Rail vertical mounted (35 7.5/15)

**Failure rate**
- MTBF (SN29500/40°C): 17 years

*Specifications subject to change without any further notice.*