

SM2 MODULE OF ANALOG INPUTS

FEATURES:

MOD BUS Program LPCConfig



- Conversion of standard signals and temperature into RS-485 / MODBUS in 4 channels
- Programmable measurement characteristic
- Fixing on a TS35 rail
- Mathematical functions realized between channels and on channels
- 2 programmable OC outputs
- Full galvanic separation between inputs.

INPUTS:

0...20 mA 4...20 mA

0...10 V



OUTPUTS:

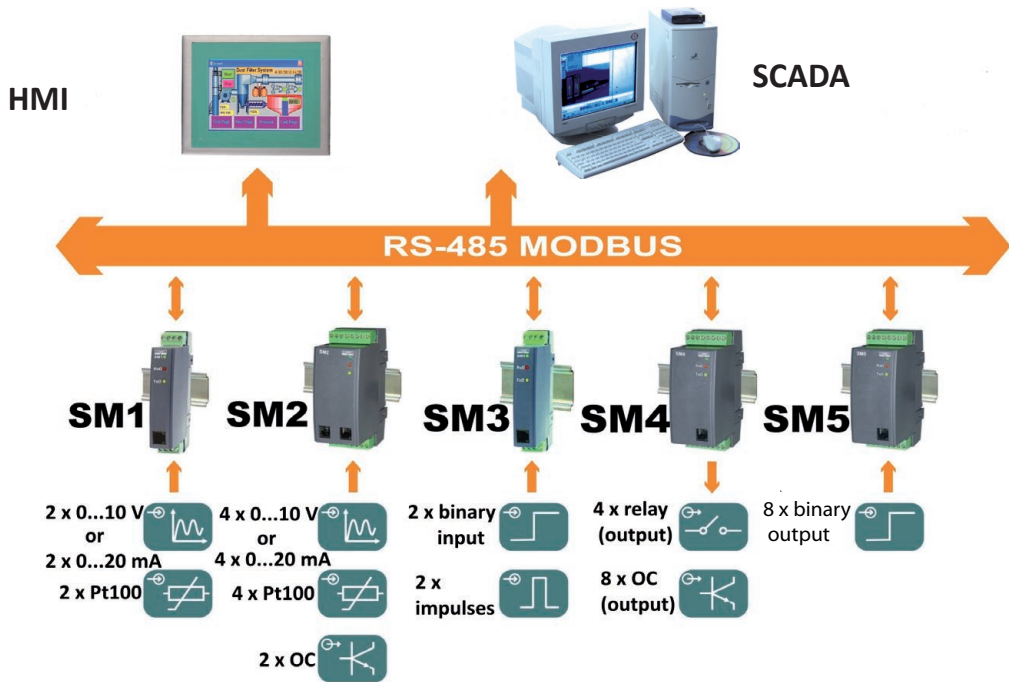
RS 485 2x

GALVANIC ISOLATION:

RS 232

RS 485 Supply

EXAMPLE OF APPLICATION



EXTERNAL FEATURES

| | | |
|--------------------|-------------------|--------------------------|
| Overall dimensions | 45 x 120 x 100 mm | |
| Weight | < 0.3 kg | |
| Protection grade | IP40 | from terminal side: IP20 |

DIGITAL INTERFACE

| Interface type | Transmission protocol | Modes | Baud rate |
|----------------|-----------------------|-----------------|-----------------------------|
| RS-485 | Modbus RTU | 8N2,8E1,8O1,8N1 | 2400; 4800; 9600; 19.2 k; |
| | Modbus ASCII | 8N1, 7E1, 7O1 | 38.4 k; 57.6 k; 115 k bit/s |

INPUTS

| Input type | Range | Error |
|-------------|---------------|-------|
| Temperature | -200...850 °C | 0.1% |
| Current | 0/4...20 mA | 0.1% |
| Voltage | 0...10 V | 0.1% |
| Resistance | 0...400 Ω | 0.1% |

OUTPUTS

| Output type | Properties | Remarks |
|-------------------|------------|------------------|
| Digital interface | RS-485 | Modbus ASCII/RTU |

RATED OPERATING CONDITIONS

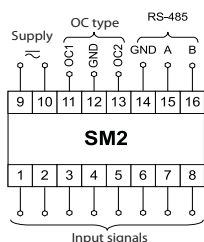
| | | |
|-------------------------|---|---------------------|
| Supply voltage | 85...253 V a.c./d.c. (40...400 Hz) or d.c. 20...50 V a.c./d.c. (40...400 Hz) or d.c. | Input power: ≤ 4 VA |
| Temperature | ambient: -10...23...55°C | |
| Relative humidity | < 95% | |
| Operating position | on a TS35 rail | |
| External magnetic field | < 400 A/m | |

SAFETY AND COMPABILITY REQUIREMENTS

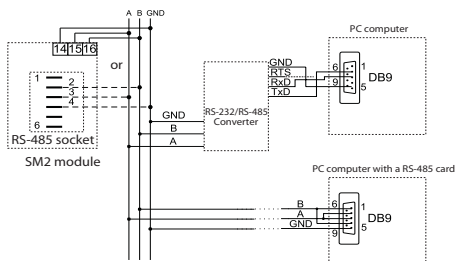
| | | |
|--|--|----------------------|
| Electromagnetic compability | Noise immunity | acc. to EN 61000-6-2 |
| | Noise emissions | acc. to EN 61000-6-4 |
| Isolation between circuits | | acc. to EN 61010-1 |
| Pollution level | 2 | |
| Installation category | III | |
| Maximum phase-to-earth operating voltage | Supply: 300 V, input 50 V, Output: 50 V | |
| Altitude a.s.l. | 2000 m | |

CONNECTION DIAGRAMS

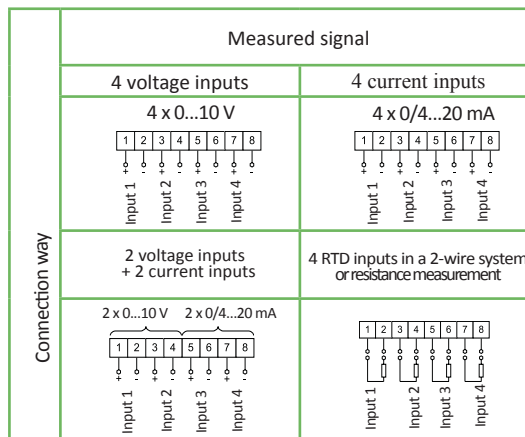
Connection way of external signals



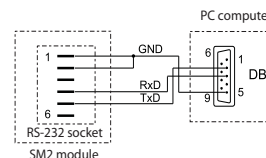
Connection way of the RS-485 interface



Connection way of input signals



Connection way of the RS-232 interface



ORDERING

| | | | |
|--|----------------------|----------|----------|
| Module of analog inputs - SM2 | XX | X | X |
| Input signal : | | | |
| 4 voltage inputs | 0...10 V | 00 | |
| 4 current inputs | 0/4...20 mA | 01 | |
| 2 voltage inputs + 2 current inputs | 0...10 V+0/4...20 mA | 02 | |
| 4 resistance inputs | 0...400 Ω or Pt100 | 03 | |
| Supply: | | | |
| 85...253 V a.c./d.c. | | 1 | |
| 20...50 V a.c./d.c. | | 2 | |
| Acceptance tests: | | | |
| without additional quality inspection requirements | | | 8 |
| with an extra quality inspection certificate | | | 7 |
| other quality requirements * | | | X |

* after agreeing with the manufacturer

Ordering example:

The code **SM2 - 01 1 8** means:
SM2 - module of SM2 type

- 01** - 4 current inputs: 0/4...20 mA
- 1** - supply: 85...253 V a.c./d.c.
- 8** - without additional quality inspection requirements

SEE ALSO:



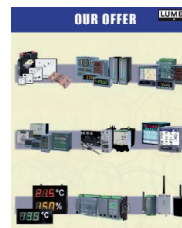
Free LPConfig software



HMI panel



Programmable controller SMC



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