

AnDi 4

4-channel analog to M-Bus converter

Suitable for industrial sensors

Input ranges: 0/4 - 20mA and 0 - 10V

Integrated supply of sensors

Free setup and scaling of metering inputs

All measuring inputs electrically insulated



The AnDi 4 allows capturing of analog measured data such as pressure, temperature or speed by a M-Bus installation. The connection of standard industrial sensors with 0/4...20 mA or 0...10V signals is possible.

All four analog inputs are electrically completely insulated and can be addressed as stand-alone devices on the M-Bus. During installation unit and scaling of the measured values are adaptable to the sensors at will.

The AnDi 4 can provide the sensor supply voltage, so additional power supply units are not required. In the passive mode it also can be inserted into already existing measuring loops.

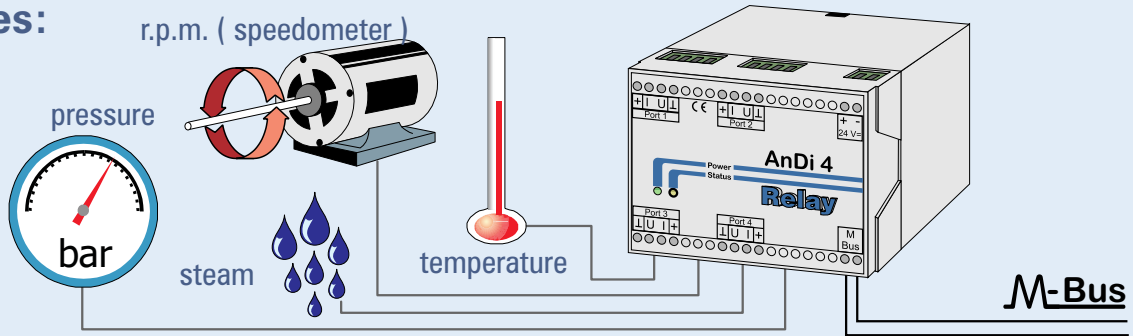
Versions with 1 to 3 inputs are also available in the AnDi series.

Relay

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Fourtimes analog to M-Bus: AnDi 4

Examples:



Function of the AnDi 4

The AnDi 4 has four analog measuring inputs that are galvanically insulated from each other and from the M-Bus. All measuring inputs can evaluate sensors with either 0/4-20mA current loop or with 0-10V power output. The respective measuring mode is separately configurable. All sensors can also be supplied by the AnDi 4 without need of additional power packs.

For the highest flexibility to all types of tasks, all measuring inputs of the AnDi 4 are separately programmable by software. The AnDi 4 can scale the measured analog value and add a selectable unit. For example, the measured quantity pressure can be converted to the unit "bar".

Advantages of the M-Bus system

- ✓ Cost-saving field bus system
- ✓ Two-wire bus supplying power to the bus users
- ✓ Large range (several kilometres)
- ✓ European standard (EN 1434)
- ✓ Good availability of system components
- ✓ Suited for applications at home and in industry
- ✓ Remote reading of consumption (water, heat, gas, electricity, ...)
- ✓ Total energy monitoring
- ✓ Data logging by mouse click
- ✓ Transmission rates up to 38 400 baud

Technical data

Power supply: 24V DC \pm 5%
 Power input: max. 160mA
 M-Bus quiescent current: 1.5mA (1 unit load)

Supply of sensors: 15 .. 17,5V DC
 max. 35mA, short circuit protection

Galvanic insulation: 1kV
 Input range : 0/4 - 20mA
 0 - 10V

Config. metering range: -32767 .. 32767
 Metering resolution: 12 bit
 Non-linearity of the ADC: max. 2 LSB
 Operating temperature: 0 .. 55°C

M-Bus protocol: according to EN1434-3
 Transmission speed: 300, 2400 baud (auto-baud detect)

Displays: 2 LEDs:
 supply (power)
 AD-converting, Init. (state)

Case mounting: rail / wall mounting
 Protection type: IP40
 Dimensions: H x W x D: 100 x 77 x 110 mm

Order information

AnDi 4 channel Art-No. MB AnDi4
 AnDi 3 channel Art-No. MB AnDi3
 AnDi 2 channel Art-No. MB AnDi2
 AnDi 1 channel Art-No. MB AnDi1
Delivery contains: PC-software for configuration

Accessories

24V DC plug-in power supply: Art-No. NT005
M-Bus readout software:
 Look@M-Bus for Windows 95/98/NT Art-No. SW006

Relay

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