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.

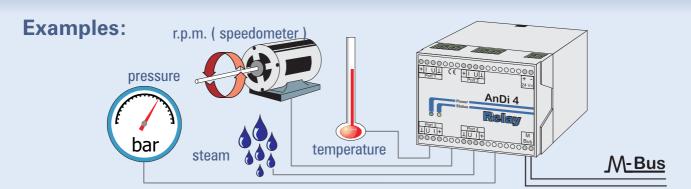
The AnDi 4 can provide the sensor supply voltage, so additional power supply units are not required. In the passive mode it also can be inserted into already existing measuring loops.

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





Fourtimes analog to M-Bus: AnDi 4



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

24V DC \pm 5% Power supply: 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

0/4 - 20mA Input range:

0 - 10V

-32767 .. 32767 Config. metering range:

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

according to EN1434-3 M-Bus protocol: 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



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