

AD-02U-I/O-2

General

The under-plaster analogue module reads two separate analogue values 0-5V into the subnet. The resolution of each channel is 8 bits. The individual analogue channels are available in the master module for other connections according to the application. There are also two digital inputs and two digital outputs available to which you can connect sensors and indicator lamps for example.



Inputs / Outputs

- 2 analogue inputs 0-5V
- 2 digital outputs OC
- 2 digital inputs
- Reference voltage +5V

Function displays

- 1 red LED indicates the operating voltage
- 1 flashing yellow LED indicates communication with the master via the subnet

Connections

- 1 connection for the subnet (BUS A and B, RS-485)
- 1 connection for the operating voltage (Ub, 0V)
- 2 analogue inputs
- 2 digital inputs
- 2 digital outputs
- 1 connection for a +5V reference voltage

Design

- Encapsulated in plastic yellow cover for installation in conventional under-plaster boxes or external devices

Special function DIP switch 1

- Baud rate
 - Switch OFF data transfer rate 38400 baud
 - Switch ON data transfer rate 9600 baud

Technical data

Type	AD-02U-I/O-2
Art. Nr.	80027220
Operating voltage	12-30V DC
Current consumption	max. 20-80mA

Technical data

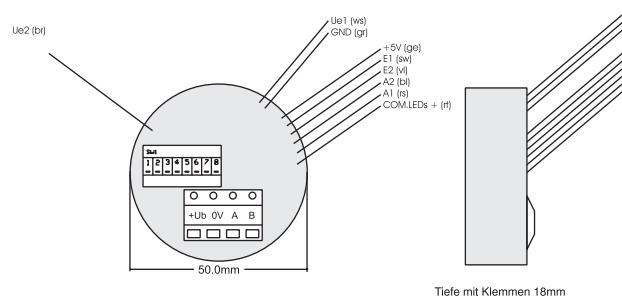
AD-02U-I/O-2	Continued
Analog input voltage	2 analog inputs with a common GND 0-5V, 8 bit resolution, input resistance 47kOhm in row (input voltage 0-10V as special version possible or external via power distributor 10kOhm + 10kOhm to masse)
Reference voltage output	1 output 5V, output current max. 10mA short circuit proof (common GND with the analogue inputs)
Digital outputs	+Ub -1V max. 20mA via OC
Digital inputs	12-30V 5mA via optical coupler (4,7kOhm)
Subnet (RS-485)	max. 5,6V limited by Z-diodes
Dimensions	DxH 50x18mm
Weight	90g
Connection	Screw terminals for BUS, wires 0,8mm for inputs / outputs
Operating temperature	-10...+50°C
Storage temperature	-25...+70°C
Humidity	0...85 % r.F. non condensing
Protection class	IP20
ESD immunity	Category 2 according to IEC1000-4-2
EMV immunity	Use in typical industrial environment. Category 3 lt. IEC-1000-4-4 (Test was carried out within a whole system)
CE sign	yes

Terminal assignment

\approx Ub	Operating voltage
0V	Operating voltage
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)

Wire colour	Designation
white	Analog input 1
brown	Analog input 2
yellow	Reference voltage output +5V
grey	GND Reference voltage
pink	Digital output 1
blue	Digital output 2
dark purple	Digital input 2
black	Digital input 1
red	COM (+) Digital outputs (+Ub -1V)

View



Wiring diagram

