



FS1205

Pressure transducer for atmospheric and barometric air pressure, digital output

Measuring size: atm. air pressure, bar. air pressure

Output: Modbus RTU, Relay

Highlights: input altitude above sea level, easy-to-install surface-mounted housing, optional LCD-Display



Description

The pressure transducer FS1205 registers the atmospheric and barometric air pressure in the range of 500...1150 mbar and converts this measured value into a digital output signal.

In the register the height above sea level, output attenuation, offset value etc. can be specified.

As special equipment a potential-free alternating contact and/or a backlit display are available. The contents of the display can be rotated in steps of 90° by using a command.

As special functions a series of defined measured values from other bus-participants (also cross-manufacturers) can be shown in the display. To display measured values from other bus-participants these are entered into the corresponding register by the bus-Master. The optional alternating contact can be configured for measured values from other bus-participants.

The configuration of address, transmission mode/speed, terminating resistor and master/slave function of the bus-devices can easily be done using the innovative DIP switch technology. Thus devices can quickly and easily be integrated into the system and later parameterised via the master.

The bus-devices can even be reset to the works settings during operation of the master. Thus the basic functionality of the device is recreated in a matter of seconds. This can be necessary in the event of incorrect parameterisations of, e.g. offset, switching threshold, display modes etc..

By means of the FS master/slave topology autarkic nodes without additional SPS master can be installed within the device series. Hereby a bus-device assumes the master function in the node. This requests the measured values from other bus-participants, automatically enters these into the corresponding register and shows them in the internal display. Furthermore the master can evaluate and operate additional actuators in the device series (analogue in- and outputs, relay station).



Technical Specifications

Measurement range atm. air pressure	500-1150 mbar
Measurement range bar. air pressure	500-1150 mbar
Accuracy	±5 mbar (at 20°C)
Temperature dependency	1 mbar / 10 K
Linearity inaccuracy	±1,0% final value
Offset	can be entered in the register
Output attenuation	can be entered in the register
Supply voltage	24 V DC (±5%)
Current consumption	max. 20 mA + 30 mA (option display) + 20 mA (option relay)
Digital output	Modbus RTU
Alarm output	1 x potential-free change-over contact, 48 V, 1 A
Switching Hysteresis Relay	can be entered in the register
Electrical connection	push-in terminal, no tools required, time-saving
Pressure resistance	5-times of measurement range
Housing	Polycarbonate PC UL 94 V0 with hinge locks, color signal white similar to RAL 9003
Dimensions	Housing: L 89 x W 80 x H 47 mm
Cable gland	PG11 high-strength cable gland with strain relief
Display	optional LCD display with backlight on/off/auto
Protection type	IP30
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	0...+50°C
Storage temperature	0...+50°C
Installation	screw fastening
Approvals	CE, EAC, RoHS



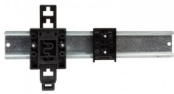
Variants

Article Number		
Air pressure	Output	Equipment
FS1205-MBR-P4-D		
500...1150 mbar	Modbus RTU	Display
FS1205-MBR-P4-DR		
500...1150 mbar	Modbus RTU	Display, Relay
FS1205-MBR-P4-R		
500...1150 mbar	Modbus RTU	Relay
FS1205-MBR-P4-X		
500...1150 mbar	Modbus RTU	-

Accessories

SB/E

Snap-on mounting for DIN rails





Dimensional Drawing

