

ZT-S FUNCTIONAL SAFE PRESSURE TRANSMITTER (SIL2)

ZT-S

Functionally safe pressure transmitter

Reliable pressure measurement and optimal process monitoring thanks to the ZT series. Developed for high demands and safety-critical applications

- ✓ Safe measurement of pressures up to 500 bar
- ✓ Versatile application possibilities due to flexible design of the connections
- ✓ Industrially suitable and fail-safe design with integrated self-test functions
- ✓ Media compatible with all media compatible with stainless steel
- ✓ Low total error due to electronic calibration
- ✓ Long-term tightness and stability due to monocoil approach



Technical data

Characteristics

Operating voltage	12...32 V DC (max. 0,2 W)
Dimensions	Ø 22 x 59 (D x H), SW22
Housing	Stainless steel
Messbereich Nenndruck	-1...500 bar variable selectable
Overload pressure	2x nominal pressure
Bursting pressure	4x nominal pressure
Protection class	IP65

Operating conditions

Print type	Relative pressure
Media temperature	-40 ...+125 °C -20 ...+125 °C
Ambient temperature	-40 ...+105 °C

Electrical connections

Standard connection	Binder M12 x 1
Standard output signal	ZILA-DIO protocol Others on request

Measurement parameters

Response time	27 ms
Total error	≤ 0.5 % FS in the comp. range

Process connection

Standard relative pressure	G 1/4" internal thread others on request
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Applications

- ✓ Refrigeration systems and heat pumps
- ✓ Ventilation, heating and climate technology
- ✓ Filter and pump monitoring
- ✓ Hot water and steam boiler monitoring
- ✓ Process measurement technology
- ✓ Mechanical and plant engineering

Applied standards and approvals

- ✳ DIN EN 378
- ✓ DIN EN 12952-11
- ✓ DIN EN 61508:2010
- ✓ DGRL 2014/68/EU
- ✓ DIN EN 12953-9
- ✓ DIN EN 12263:1998

Technical modifications reserved.

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ES-2.. ELECTRONIC SAFETY SWITCHING DEVICE FOR PRESSURE MONITORING

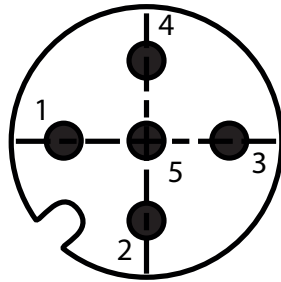
Wiring diagram of the cable plugs

Stecker 1: 5-polig M12

A-kodiert

Pin assignment (male):

- 1: GND
- 2: 12...32 V DC (max. 0,2 W)
- 3: Digital I/O (Communication to ES2x)
- 4: n.c. / not connected
- 5: n.c. / not connected



Gerätebauform und -abmessungen



Smart Pressostat App



- ✓ Retrieval of settings- and test protocols
- ✓ Convenient setting of limit values & delay times
- ✓ Configuration of the device
- ✓ Management of multiple devices

More information: www.fluidio.de/es2x



Modellnummer

Basic designation

Measurand

— = z.B. 60 for 60 bar

Output signal

- 0010 = Analogue 0...10 V
- 0545 = Analogue 0,5...4,5 V
- 0420 = Analogue 4...20 mA
- ZDIO = ZILA-DIO protocol

Electrical connection

- A = DIN EN 175301-803 A
- C = DIN EN 175301-803 C
- M = Binder M12x1

Process connection

- 0 = G 1/4" (Female)
- 1 = G 1/4" ISO 1179-2 (Male-E)
- 2 = NPT 1/4"

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