REPCOM srl - Piazza Marconi 7/D - 20871 Vimercate (MB) - www.repcomsrl.com



Digital Industry Transmitter



Special Features:

• Accuracy o < 0.15% BFSL CIT

- o < 0.25% BFSL CIT-F
- Robust construction
- o Wetted parts of stainless steel
- o Protection category IP 65
- Programmable by PC programming kit or service tool
- o Zero point (offset)
- o Range able 4:1
- o Zoom and SPAN
- o Characteristics / Output options
- (inverse, square rooted, special forms)
- Straightforward zero correction

by using a magnet

- Output signals
- o 4 ... 20 mA
- o 0 ... 10 V o 0 ... 5V
- o Digital
- Process connections
- o Standard to chart
- o Others on request
- o SIT-F flush diaphragm
- ∘ G½"
- o G1¾"
- o G1"

Description:

The wide application field of pressure transducers is guaranteed by the high accuracy and the rugged design.

The stainless steel membrane is completely vacuum-sealed, extremely burst resistant and applicable for all standard media for hydraulics, pneumatics, environmental engineering, process technology, semiconductor technology and automotive engineering. Thus the use for standard applications of mobile hydraulics and other application areas is covered.

Due to the manufacturing process all pressure transducers are being individually pressure- and temperature-tested. The production occurs due to the requirements of DIN EN ISO 9001:2008.

Construction:

The compensation and adjustment is carried out electronically. Thus the pressure transmitters have a very low total error and a very good longterm stability. The measuring cell is characterised by its high long-term resistance and long-term stability.

With the precision of modern electronics, the measured data can be captured accurately. Even the programming of the pressure transducers by the user can be realised on a service tool or PC programming kit. The graduation of the measuring range and the zero point can be set up through the digital interface. Furthermore sensor data can be readout from the device. By using permanent magnets the adjustment of the zero point can easily and securely be done at any time.

Applications:

- Pneumatics / Hydraulics
- Mechanical Engineering
- Vehicle Technology
- Mobile Hydraulics
- Water treatment
- Food- and Beverage industry
- General industrial applications
- Pharmaceutical Industry



*) Others on request **) Special custom design with optional better accuracy on request ***) integral linearity error (FS = Full Scale, BFSL = Best Fit Straight Line)



Figure similar depending on model



M12x1 (Binder series S763)

Ø

Sia

2 wire : 1 + , 2; 3 wire : 1+, 2 Gnd , 3+ out/ signal*

Cable : 2 wire : red + , black; 3 wire : red + , black -, white out,*

*) Others on request

 \mathcal{O}^+_-

 \mathcal{O}_{+}

consumer



Zero correction

The zero can be set easily with a magnet within ± 10 % of the nominal range.

To correct the zero point, hold a permanent magnet– a pin board magnet, for example – at the position marked on the pressure transmitter (i.e. a letter in a circle) for ½ to 2 ½ minutes after the power has been switched on. To correct the zero, atmospheric pressure is applied. Offsets for previously set values for initial and ultimate pressures will be corrected automatically by the device. A magnetic field applied outside of this time period has no effect on the setting. The power must be switched off and on before the zero point can be set again.



Parameterization

Parameterization of measuring range (1:4), zoom, pan and adjustment of characteristic diagram are possible with service tool or PC adapter and software. Programmable devices are only available with Electrical connection by Binder M12 (Binder series S763) or by cable. The service tool or the PCF software are available accessory.

Service

The sensors are free of maintenance.

Note

We compiled this operating instruction carefully. Nevertheless, it was not possible to take all possibilities of application into account. If this data sheet should lack the solution of your special task, please don't hesitate to contact us.

Safety information

During installation, putting into service and operation of the pressure sensors, it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example, DIN VDE 0100).

Errors excepted; subject to alterations in the sense of technical improvement.