

MFM-ZP. Module for automatic zero setting of pressure- and flow transmitters

MFM-ZP

APPLICATION

MFM-ZP is a built-in module for automatic zero setting of pressure- and flow transmitters.

MFM-ZP is specially designed for low pressure ranges with measurement around zero pressure with a maximal deviation less than +/- 0,1 Pa and flow measurement using flow sensor MFS down to approximately 0,5 m/s.

MOUNTING

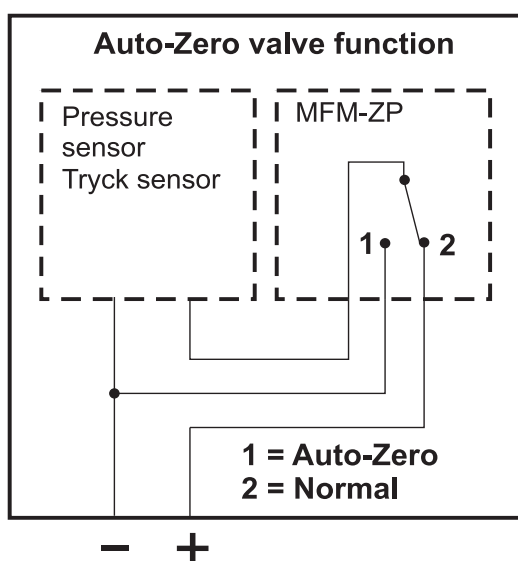
MFM-ZP can be factory mounted with Micaflex ver.3, in following transmitters: PFT, PFC, PFA, PFTT, PFCA and RCA.

DESIGN

MFM-ZP consist of a electric miniature solenoid valve and control circuit placed on a circuit board and connected with hose between pressure sensor and pressure connections internally. The module is powered from the main power supply with 24 VAC/VDC. The control signal is connected to main output 2 signal (mA) which is activated with this function when the pause time is programmed larger than 0,0 seconds. In Micaflex RCA the control signal is connected to the RCA signal module terminal.

VALVE FUNCTION

During zero setting, the sensor pressure connections + and - are connected together to achieve a differential pressure of 0.



FUNCTION

Automatic zero setting can be programmed in intervals of 0,1...60,0 hours and also by pressing both arrow keys simultaneous during the pause period.

The time interval 'PAUSE' is programmable in parameter group **Pressure**, parameter 81, *Auto Zero(h)*.

During zero setting the actual value and control signal are frozen to avoid display and output signals to be affected. The sequence for zero setting is completed in approx. 15 sec.

Using the arrow keys, a menu showing the remaining time before zero setting start can be displayed. "PAUSE" time is shown in hours, when the remaining time is less than 1,5 hours, the display show remaining time in minutes and when the time is less than 2,5 minutes, the display show remaining time in seconds.

AutoZero	PAUSE
Waiting	h,m,s

When zero setting start, the display show "PRE" and the actual value and control signals are frozen and the countdown begin in seconds.

AutoZero	PRE
Waiting	s

"EVAC" is shown when the pressure connections are coneted together.

AutoZero	EVAC
Waiting	s

"POST" show the time before normal operation is resumed.

AutoZero	POST
Waiting	s

TECHNICAL DATA:

Power supply: 24 VAC/VDC

Power consumption: 2 W

Control signal: 20 mA

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AB Micatrone
Åldermansvägen 3
SE-171 48 SOLNA
SWEDEN

Telephone: +46 8-470 25 00
Fax: +46 8-470 25 99
Internet: www.micatrone.se
E-mail: info@micatrone.se