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DATA SHEET

PEL 2500-SV

Produal

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PRODUAL
measure-be sure.

PEL 2500-SV – FILTER GUARD

PEL 2500-SV filter guard is designed for filter monitoring in systems that handle air and other non-flammable gases. The pressure measurement is temperature compensated according to the ambient temperature.

The device has three indicator lights that indicate the filter status. The indicator light limits can be changed with the ML-SER. The potential free outputs are controlled according to the indicator lights.

Output signal can be selected to be either differential pressure linear or flow (volume) linear.

The transmitter zero point is kept accurate by using the regular automatic zeroing, eliminating the possible zero point drifting. No re-calibration is normally needed.

The influence of process disturbances (e.g. turbulence) can be damped by selecting a suitable time constant (2 s or 8 s).

Selecting measuring range:

S2	S3	S4	
		0…2500 Pa *)	0…500 Pa
		0…2000 Pa	0…200 Pa
		0…1500 Pa	0…100 Pa
		0…1000 Pa	±100 Pa

*) Factory setting. The 0…2500 Pa range is also used for the custom range setting. The range limits can be changed with the ML-SER.

Selecting time constant:

S1	Time constant
	2 s
	8 s *)

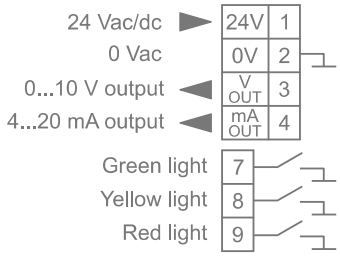
*) Factory setting.

Selecting the output mode:

S5	Output mode
	pressure linear *)
	flow linear

*) Factory setting.

Wiring:





Technical data:

Supply	24 Vac/dc (22...28 V), 2 VA
Measuring ranges	± 100 Pa 0...1000 Pa 0...100 Pa 0...1500 Pa 0...200 Pa 0…2000 Pa 0...500 Pa *0…2500 Pa
Accuracy	±3 Pa ±1 % of reading (25 °C)
Output (filter status)	3 x potential free contact
Output (pressure or flow linear)	*0...10 / 2…10 / 0…5 Vdc, < 2 mA *4…20 / 0…20 mA, 700 Ω
Time constant	2 s or *8 s
Max. over pressure	13 kPa
Pressure connections	Ø5 mm
Operating temperature	0...+45 °C
Housing	IP 54, polycarbonate
Dimensions (w x h x d)	105 x 102 x 46
	* = factory setting

Ordering guide:

Model	Product number	Description
PEL 2500-SV	2240170	differential pressure transmitter
PEL-AS	1131010	PEL accessory kit (2 m hose and duct assemblies)
ML-SER	1139010	transmitter commissioning tool

Products fulfill the requirements of directive 2014/30/EU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

Information is subject to change without prior notice.