

Product overview

Adjustable differential pressure transmitter DPT for monitoring the differential pressure of air and other non-flammable and non-aggressive gases.

Possible applications: monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, anti-freeze with heat exchangers.



Types available

Type code	Type	Description
EXT-TN-1066777	DPT2500-R8	4...20mA or 0...10V output, measuring range adjustable, max. 2500Pa
EXT-TN-1071641	DPT2500-R8-D	4...20mA or 0...10V output, measuring range adjustable, max. 2500Pa, LCD
EXT-TN-1066791	DPT7000-R8	4...20mA or 0...10V output, measuring range adjustable, max. 7000Pa
EXT-TN-1066807	DPT7000-R8-D	4...20mA or 0...10V output, measuring range adjustable, max. 7000Pa, LCD
EXT-TN-1072426	MKS100	Metal duct connector, L=100mm (2 pieces necessary per device)

Technical data

Standards	CE conformity	- 2004/108/EG Electromagnetic compatibility - 2001/95/EG Product safety
General data	EN conformity	- EN60730-1:2002 EMC - EN60730-1:2002 Product safety
	Power supply	DC 24V / AC 24V(±10%)
	Power consumption	Max. 1W
	Output	0...10V, load min. 1kΩ or 4...20mA, load max. 500Ω
	Response time	0.8 or 4 sec. (selectable at the device)
	Material	- Housing : ABS - Cover : PC - Pressure connection : ABS
	Pressure connection	Male, D=5mm / 6,3mm
	Electrical connection	Screwing terminals, max. 1.5mm ² Cable entry M16
	Dimensions LxWxH	90 x 71.5 x 36 mm
	Measuring element	Piezoresistive
	Bursting pressure	30kPa (model 2500), 80kPa (model 7000)
	Accuracy	±1.5% or (±6Pa <250Pa)
	Media	Air and non-aggressive gases
	Ambient temperature	-10...+50°C, max. 95% RH, non-condensing
Storage temperature	-20...70°C	
Protection	IP54 according to EN 60529	
Weight	150g	
Type DPT2500-R8 (-D)	Measuring range	-100...+100Pa / 0...100Pa / 0...250Pa / 0...500Pa / 0...1000Pa / 0...1500Pa / 0...2000Pa / 0...2500Pa (selectable at the device)
Type DPT7000-R8 (-D)	Measuring range	0...1000Pa / 0...1500Pa / 0...2000Pa / 0...2500Pa / 0...3000Pa / 0...4000Pa / 0...5000Pa / 0...7000Pa (selectable at the device)

Security advice

The installation and assembly of electrical equipment may only be performed by a skilled electrician.

The modules must not be used with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people or animals.

Mounting advice

- For connecting the device, the process lines must be unpressurised.
- Note the suitability of the device for the medium to be measured.
- Note the maximum pressures.

Installation

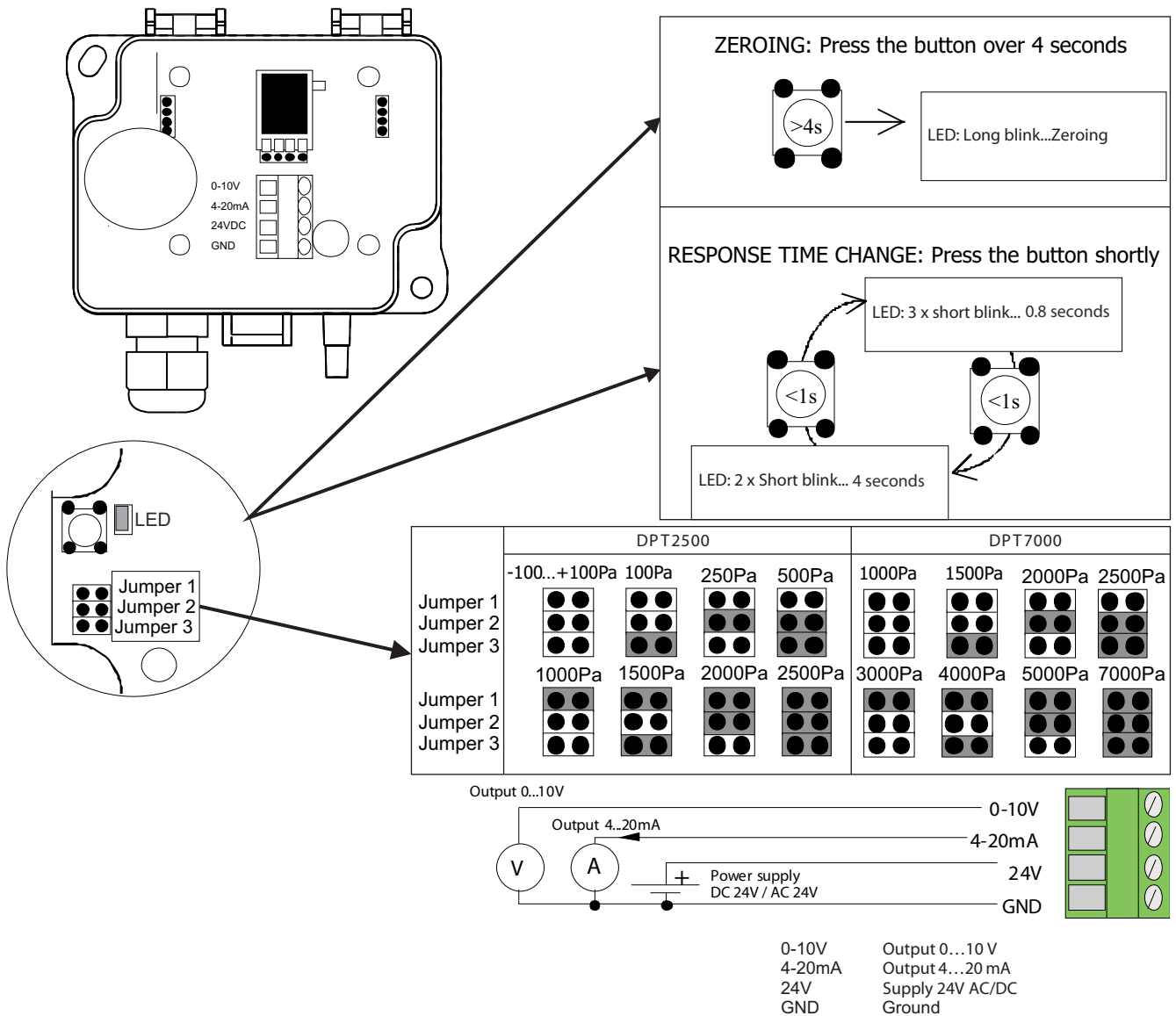
A prerequisite for the operation is a proper installation of all electrical supply, control and sensing leads as well as the pressurised connection line.
 Before installing the device, the leak tightness of the pressurised connection lines must be inspected.

Zero-point calibration

- Note!**
 Supply voltage must be connected one hour before the zero-point calibration is carried out.
- Release both tubes from the pressure inlets + and -
 - Push zero button until the red led turns ON.
 - Wait until LED turns off and then install tubes again to the pressure inlets.

During normal operation it is recommended to calibrate the zero point every 12 months.
 If the transmitter is equipped with automatic zero-point calibration the manual calibration is not required.

Terminal connection plan



Dimensions (mm)