

The PDE2-Series (dP) is designed to measure differential pressure of air, non-combustible, and non-aggressive gases in HVAC systems. The control output is 2-point (ON/OFF). The differential pressure switch has an internal set point adjuster.



Use	<p>Compatible with all common HVAC DDC and Analog Controls Systems, with/without Building Automation System</p> <p>Used in all common HVAC applications</p> <p>Monitoring of primary or secondary air dampers</p> <p>Supervision of heating / cooling coils to prevent overheating / freezing</p> <p>Monitoring of fans and fan belts</p>
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Features	<p>2-point (ON/OFF) output</p> <p>Internal set point adjuster</p> <p>Long-term stability of the measuring element</p> <p>Professional and practical product design, withstands rough environmental conditions</p> <p>Easy to use, install and maintain</p>
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Product Range		Pressure Range					Switching Differential				Switching Point	
	Order Code	20...200Pa	30...300Pa	50...500Pa	200...1000Pa	500...2500Pa	300...1500Pa	10Pa	20Pa	100Pa	150Pa	Default Value
	PDE2.NAb	●						●				100Pa
	PDE2.AAb		●					●				150Pa
	PDE2.BAb			●					●			250Pa
	PDE2.CAb				●					●		500Pa
	PDE2.DAb					●					●	1250Pa
	PDE2.EAb						●			●		750Pa

All information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Measuring Range (s) Default Switching Point (s) Switching Differential Tolerance / Repeatability Max. Over Pressure Switching Cycles	Differential Air Pressure Passive ON / OFF See Product Range, Page 1 See Product Range, Page 1 See Product Range, Page 1 15% / 2% Max. 10.0kPa > 1.000.000
Technical Information	Electrical Information Mechanical Information User Interface Color and Materials Environmental Conditions Norms and Directives	Switch Type Terminal Clamp Relay Rating Connection Nozzle Dimension Cable Entry Sensing Element Position Set Point Adjustments Release Button Housing Cover Housing Bottom Lock Screws Lock Nuts Cable Gland Gland Rubber Seal Protection Caps User element Connection Nozzle Diaphragm Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity IP- Rating Safety Class Product Standard 1 Product Standard 2 CE Conformities to CE Electromagnetic Compatibility Emitted Interference CE Electromagnetic Compatibility Interference Resistance RoHS Compatibility Operation Climatic Condition Operation Mechanical Condition Transport to Climatic Condition Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Condition	SPDT; Single-pole, change over contact Screw terminal, max. 2.5mm ² AC 250V, max. 1.5A; DC 30V, max. 2A Ø6mm M16, Ø6...Ø8mm cables Internal, bottom of the housing See Product Range, Page 1 No button / Automatically PC, Transparent POM, Grey Nickel plated carbon steel Brass ABS, Grey Rubber, Black ABS, Red, RAL2002 (Vermilion) ABS, White P1 (-): POM, White / P2(+): POM, Grey Silicone, emission free -40°C...+85°C <85% r.h., no condensation -40°C...+85°C < 90% r.h., no condensation -40°C...+85°C < 85% r.h., no condensation IP54 (with cover) to IEC60529 III to EN 60 730 Automatic Electric. Controls for household and similar use 2009/EN 60 730-1 2004/108/EG Electromagnetic Compatibility EMV 2000/EN60730-1 Emitted Interference 2000/EN60730-1 Interference Resistance RoHS 2011/65/EC IEC 60 721-3-3 IEC 60 721-3-2 to class2M2 IEC 60 721-3-2 IEC 60 721-3-2 to class2M2 IEC 60 721-3-1 IEC 60 721-3-1 to class2M2
Connection			<p> X_D = Switching difference ΔP = Pressure difference W = Top Switching point </p>
Miscellaneous	Accessories Shipping & Handling Order Notes	Mounting Kit, Included in delivery Minimum Order Product Dimension (L x W x H) / Weight Transport and Storage dimension (L x W x H) / Weight Multi Pack (PU1) Minimum Order Multi Pack (PU1) Transport and Storage dimension (L x W x H) / Weight Package Material Order Code	2 plastic tubes; 2m soft PVC hose 1 box with 1 piece 100 x 85 x 57.5mm / 140 g 100 x 100 x 100mm / 250 g 100 pieces in 2 cartons Switches 500 x 500 x 250mm / 16 kg Accessories 400 x 400 x 300mm / 10kg Rigid Cardboard See Product Range, Page 1, e.g. PDE2.NAb

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Advices

Security Advice



Caution

The installation and assembly of electrical equipment may only be performed by a skilled electrician.
The products must not be used in any relation with equipment that supports, directly or indirectly, human health, life or with applications that can result in danger for people, animals or real value.

Mounting Advices



Caution

The products are suitable to be mounted on walls or air ducts.
Each product is individually calibrated.
The product has to be mounted vertically (diaphragm in vertical position).

Installation Notes



Caution

The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations.

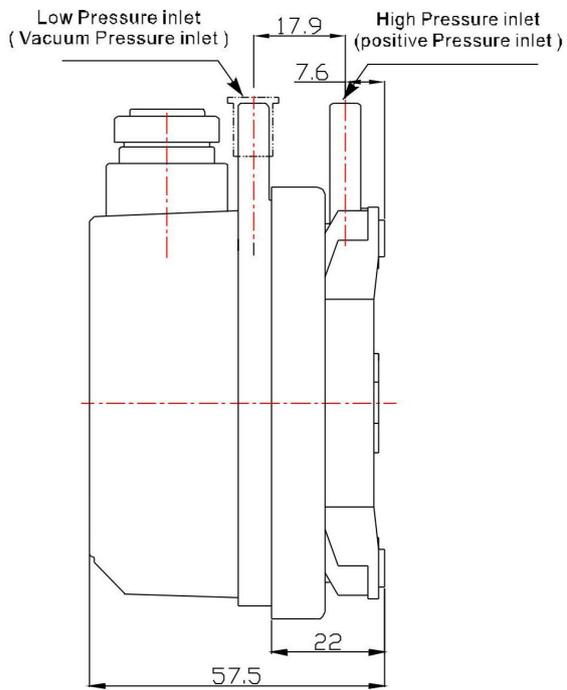
Commissioning Notes



Caution

Check carefully that no electrical power is applied to the product before you remove the housing cover.
For the electrical connection and the selection of the set point, remove the housing cover by opening the 2 screws located on the housing cover.
Connect the electrical wire (see Connection, Page 2) accordingly. Select with the set point dial the desired switching point TOP.
Please use a solid screw driver as the set point dial is rather tight. Put the cover back on the bottom housing.
Never apply electrical power until the housing cover is securely mounted on the bottom part.

Dimensional Drawing



(Dimension in mm)

