



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

Sensor Specifications	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Measuring Range (s) Default TOP Switching Point (s) Differential Gap Repeatability 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 2% Max. 7.5kPa > 1.000.000
	Technical Information	Electrical Information	Switch Type Terminal Clamp Relay Rating
Mechanical Information		Connection Nozzle Dimension Cable Entry Sensing Element Position	Ø6.3 x 1.15mm, L=10mm M16, Ø6...Ø8mm cables Internal, bottom of the housing
User Interface		Set Point Adjustments Release Button	See Product Range, Page 1 No button / Automatically
Color and Materials		Housing Cover	White PC, RAL9010 (Pure White), with Clear Window
		Housing Bottom	Grey PC, RAL7042 (Traffic Grey A)
		Lock Screws	US:AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301
		Lock Nuts	Brass
		Cable Gland	Red ABS, RAL2002 (Vermilion)
Environmental Conditions		Gland Rubber Seal	White TBS, RAL9010 (Pure White)
		Protection Caps	Red ABS, RAL2002 (Vermilion)
	User element	Red ABS, RAL2002 (Vermilion)	
	Connection Nozzle	Grey PC, RAL7042 (Traffic Grey A)	
	Diaphragm	Silicone, emission free	
	Operation Temperature	-25 ^o C...+70 ^o C	
	Operation Humidity	<85% r.h., no condensation	
Norms and Directives	Transport Temperature	-35 ^o C...+70 ^o C	
	Transport Humidity	< 90% r.h.	
	Storage Temperature	-10 ^o C...+70 ^o C	
	Storage Humidity	< 85% r.h., no condensation	
	IP- Rating	IP54 to IEC60529	
	Safety Class	III to EN 60 730	
	Product Standard 1	Automatic Electric. Controls for household and similar use	
	Product Standard 2	2009/EN 60 730-1	
	CE Conformities to	2004/108/EG Electromagnetic Compatibility EMV	
	CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference	
CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance		
RoHS Compatibility	RoHS 2011/65/EC		
Operation Climatic Condition	IEC 60 721-3-3		
Operation Mechanical Condition	IEC 60 721-3-2 to class2M2		
Transport to Climatic Condition	IEC 60 721-3-2		
Transport Mechanical Condition	IEC 60 721-3-2 to class2M2		
Storage Climatic Condition	IEC 60 721-3-1		
Storage Mechanical Condition	IEC 60 721-3-1 to class2M2		

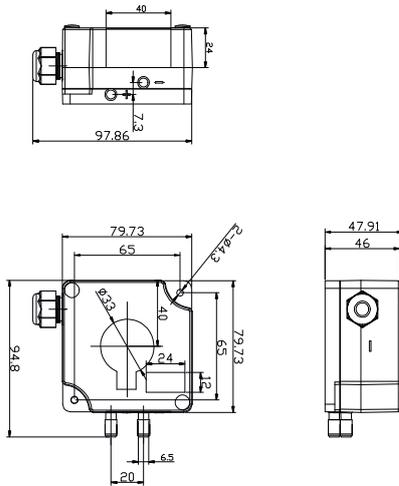
Product Range								
		Pressure Range				Switching Differential	Switching Point	
		20...200Pa	20...300Pa	50...500Pa	100...1000Pa	500...2500Pa	10Pa 20Pa 50Pa 100Pa	Default Value
	Order Code							
	PDE2.NAa	●				●	100Pa	
	PDE2.AAa		●			●	200Pa	
	PDE2.BAa			●		●	300Pa	
PDE2.CAa				●	●	600Pa		
PDE2.DAa					●	1500Pa		

All information and technical data are subject to alteration

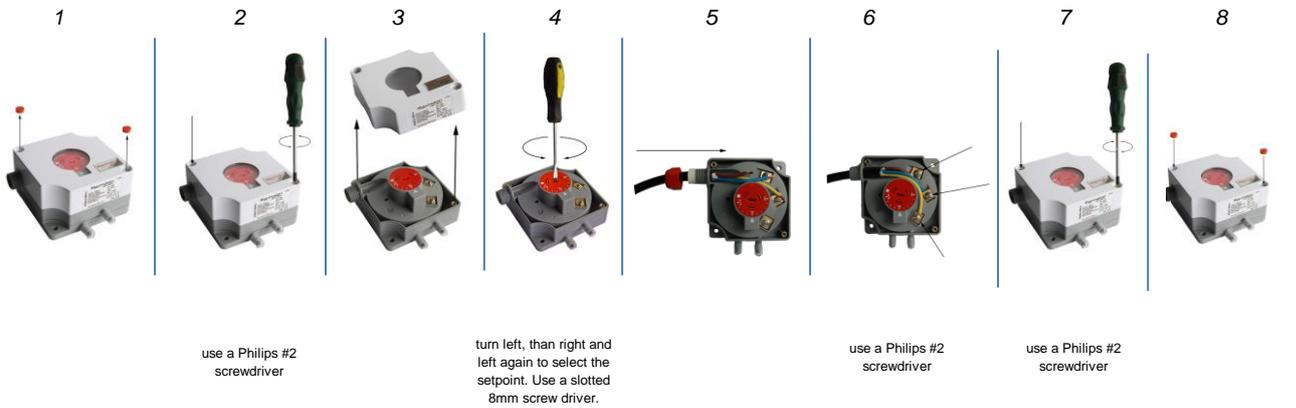
Advises

<p>Security Advice</p> 	<p>The installation and assembly of electrical equipment may only be performed by a skilled electrician.</p> <p>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.</p>
<p>Mounting Advises</p> 	<p>The products are suitable to be mounted on walls or air ducts.</p> <p>Each product is individually calibrated.</p> <p>The product can be mounted in any position, but we recommend to install the product vertically. If this is not possible, following deviations are expected: Cover facing upwards +20Pa; Cover facing downwards -10Pa.</p>
<p>Installation Notes</p> 	<p>The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations.</p>
<p>Commissioning Notes</p> 	<p>Check carefully that no electrical power is applied to the product before you remove the housing cover.</p> <p>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.</p> <p>Connect the electrical wire (see Terminal Connection, Page 2) accordingly. Select with the set point dial the desired switching point TOP.</p> <p>Please use a solid screw driver as the set point dial is rather tight. Put the cover back on the bottom housing.</p> <p>Never apply electrical power until the housing cover is securely mounted on the bottom part.</p>

Dimensional Drawing

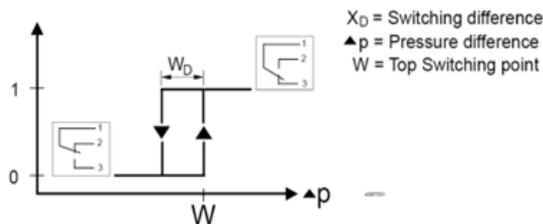
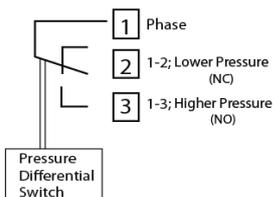


Connection Instruction



Wiring / Function Diagram

Wiring / Function Diagrams



	1	2	3
Phase	NC / Low Pressure	Pressure	NO / High Pressure