
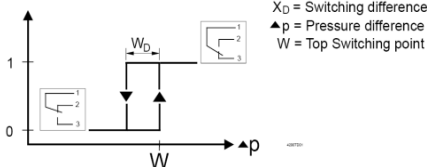
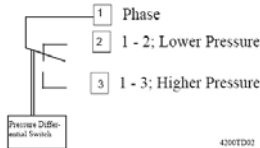


Datasheet 4200e	Product Information	
PDE2- Series	Air Differential Pressure Switch	





The PDE2-series of adjustable differential pressure switches are used in air, non-flammable gases and non-aggressive gases HVAC systems.

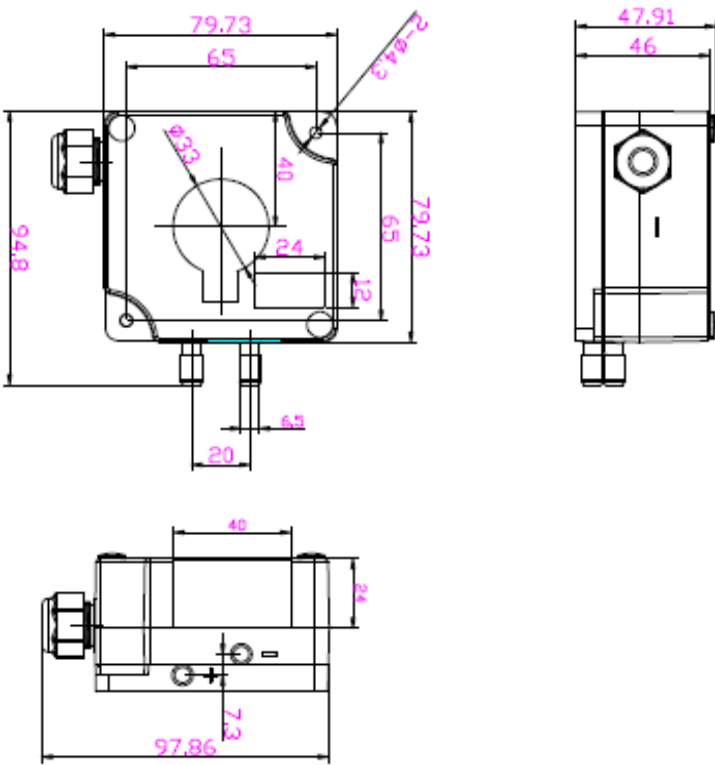


Use	Temperature measuring in outdoor areas, stores, warehouses, production plants and greenhouses				
	Ideal for temperature surveillance in industry applications				
	Supervision of the status of heating coils, preventing overheating				
	Locking on controls and display systems				
Features	Optional LCD-Display for instant monitoring				
	Easy opening of the lid via 4 stainless steel screws				
	Professional and practical product design, withstands rough environmental conditions				
	Easy to use				
	Easy to install				
	No Maintenance				
Product Range					

Sensor Specification	Function Diagram 		
	Sensor Specification	Measured Sensor Characteristic Sensor Output Sensor Diaphragm Repeatability Measuring Range Switching Differential Default TOP Switching Point Switching Cycles Reset	Differential Air Pressure Passive ON/OFF Silicon, emission free 2% full scale see Product Range, page 1 see Product Range, page 1 see Product Range, page 1 > 1.000.000 Automatically
Technical Information	Electrical Information	Switch Type Contact Rating	Single-pole, change over contact AC 250V, max 3A; DC 30V, max 2A
	Mechanical Information	Terminals Cable Entry Connection Nozzle Sensor elements positions Housing Lock Screws (2x) Housing Lock Nuts (2x)	Screw terminal, max 2.5mm2 M16, Ø6...Ø8mm cables Ø6.3x1.15mm, L=10mm Internal, bottom of the housing US: AISI 304; EU: EN X 6 CrNi 18 10; GER: W.N. 1.301 Brass
	User Interface	Set Point Adjustments	Same as pressure range, see Product Range, page 1
	Color and Materials	Housing Cover Housing Bottom Protection Cap Cable Gland Gland Rubber Seal Connection Nozzles Set Point Dial	White PC, RAL9010 (Pure White), with Clear Window Grey PC, RAL7042 (Traffic Grey A) Red ABS, RAL2002 (Vermilion) Red ABS, RAL2002 (Vermilion) White TBS, RAL9010 (Pure White) Grey PC, RAL7042 (Traffic Grey A) Red ABS, RAL2002 (Vermilion)
	Environmental Condition	Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity	-25°C...+70°C <85 % r. h., no condensation -35°C...+70°C < 90% r.h. -10°C...+70°C < 85% r.h., no condensation
	Norms and Directives	IP- Rating Safety Class Product standard 1 Product standard 2 CE Conformities to CE Electromagnetic Compatibility Interference Resist. CE Electromagnetic Compatibility Emitted Interference RoHS Compatibility Operation to Climatic Condition Operation Mechanical Conditions Transport Climatic Condition Transport Mechanical Conditions Storage Climatic Condition Storage Mechanical Conditions	IP54 to IEC60529 III to EN 60 730 Automatic electrical controls for household and similar use EN 60 730-1 2004/108/EG Electromagnetic Compatibility EMV 2000/EN60730-1 Interference Resistance 2000/EN60730-1 Emitted Interference RoHS 2002/95/EY IEC 60 721-3-4 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 class 2M2
	Terminal Connection 		
Miscellanies	Accessories	Duct Mounting Kit (included)	2 plastic duct connectors; 2m durable soft PVC tube
	Shipping & Handling	Product Dimension (L x W x H) / Weight Packaging Material Order Size / Weight / Size /	Appr. 98mm x 95mm x 46mm / 205 gr Rigid cardboard, brown Individual Unit / 265 gr / 100x100x50mm 20 piece, multipack / 4.2kg / 200x300x200mm 100 pieces, multi pack / 20 kg / 330x430x230mm
	Order Notes	Order Code, Individual Unit Order Code, 20 pieces multi pack Order Code, 100 pieces multi pack	see Product Range, page 1, e.g. PDE2.AA (Individual Unit)_MP1; e.g. PDE2.AA_MP1 (Individual Unit)_MP2; e.g. PDE2.AA_MP2

All Information and technical data are subject to alternation

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 A mounting instructions are enclosed with the differential pressure switch. The products are suitable to be mounted on walls or air ducts. Each product is individually calibrated. 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 +15 Pa; Cover facing downwards -15 Pa
	Installation Notes  Caution <i>The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations.</i>
	Commissioning Notes  Caution <i>Check carefully that no electrical power is applied to the product before you remove the housing cover.</i> For the electrical connection and the selection of the set point, remove the housing cover by opening the 2 screw located on the housing cover. Connect the electrical wire (see Terminal 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. <i>Never apply electrical power until the housing cover is securely mounted on the bottom part.</i>

Dimensional Drawing	
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