3201e	Product Information	thermokon
PDE1- Series (dP)	Air Differential Pressure Active Sensor	asia pacific

The PDE1-Series (dP) is designed to measure differential pressure in HVAC systems with non-flammable gases and non-aggressive gases. The control output is active (0..10V / 4..20mA) selectable. The differential pressure transmitter has internal pressure range selector.



	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System
Use	Differential pressure measurement in HVAC systems
	Monitoring the air dampers in the primary or secondary controls systems
	Supervision of the status of heating / cooling coils, preventing overheating / freezing
	Monitoring of fan belts
	Used in all common HVAC applications
Features	Sensor with active output
	Internal selectable measuring range and control output signal
	Optional LCD display
	Professional and practical product design, withstands rough environmental conditions
	Easy to use, install and maintain

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	Measuring Ranges			Display
Model	-100+100Pa 0100Pa 0250Pa 01000Pa 01500Pa 02000Pa	01500Pa 02500Pa 02500Pa 03000Pa 04000Pa 05000Pa	30kPa 80kPa	LCD
PDE1.EAa	•		•	
PDE1.GAa		•	•	•
PDE1.FAa	•		•	
PDE1.HAa		•	•	•

Thermokon Asia Pacific PDE1- Series (dP) V2.0 Page 1/3

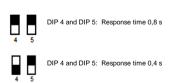
	Sensor Specification	Measured	Air Differential Pressure
<u>_</u>		Sensor Characteristics	Active
Sensor Specification		Sensor Output (s)	010V (D) / 420mA
<u>છ</u>		Output Load	Min. load 1kΩ @ AC/DC 24V
ڲ			Max. load 500Ω @ DC 24V
уþе		Accuracy	± 1.5% FC or ±3PA <250PA
<u>-</u>		Max. Over Pressure	See Product Range, Page 1
SO		Response Time	O, 4 or 8 seconds (selectable)
ĕ		Measuring Range (s)	See Product Range, Page 1
0)		Optional Measuring Range (s)	See Product Range, Page 1
	Electrical Information	Power Supply	DC 15-24V (±10%) or AC 24V (±10%)
		Frequency	50 / 60 Hz at AC 24V
		Terminal Clamp	Screw terminal, max. 1.5mm ²
		Power Consumption	≤ 1VA / AC 24V; ≤ 1VA / DC 24V
	Mechanical Information	Connection Nozzle Dimension	Ø6.3 x 1.15mm, L=10mm
	Westernear mornation	Cable Entry	M20, Ø6Ø8mm cables
		Sensing Element Position	Internal
		Range Selection	Jumper switches inside the housing
	User Interface	Display	LCD, optional
	Color and Materials	Housing Cover	PA6, White
	Color and Materials	Housing Bottom	PA6, White
		Lock Screws	Snap Connector
		Cable Gland	
			Grey ABS, RAL7042 (Traffic Grey A)
		Gland Rubber Seal	White ENSOFT50, RAL9016 (Traffic White)
_		User element	DIP Switches
Technical Information		Display	Lincid Director Direct 9 White
шa		Type PDE1.GAa/HAa	Liquid Display, Black & White
<u>.</u>		Connection Nozzle	PA6, White
≟	Environmental Conditions	Operation Temperature	-25°C+70°C
<u>0</u>		Operation Humidity	<85% r.h., no condensation
. <u>E</u>		Transport Temperature	-35°C+70°C
된		Transport Humidity	< 90% r.h.
<u>e</u>		Storage Temperature	-10°C+70°C
		Storage Humidity	< 85% r.h., no condensation
	Norms and Directives	IP- Rating	IP65 according 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

DIP	Measuring range pressure		
Configuration	PDE1.EAa/GAa	PDE1.FAa/HAa	
ON OFF 2 3	-100100	01000	
ON OFF	0100	01500	
ON	0250	02000	
ON OFF 2 3	0500	02500	
ON OFF 1 2 3	01000	03000	
ON OFF 1 2 3	01500	04000	
ON OFF 1 2 3	02000	05000	
ON OFF 2 3	02500	07000	

Connection

1	2	3	4
24V AC/DC	GND	V010	420mA

Use DIP 4 and DIP 5 to set the response time:



Note: When resetting the pressure range, be sure that you disconnected the pressure connection.

