3230e	Product Information	thermokon®
PDI1- Series (V&T)	Air Velocity and Temperature Pressure Active	asia pacific

The PDI1-Series (V&T) is designed to measure air velocity and temperature in HVAC systems with non-flammable gases and non-aggressive gases. The control outputs are active. The air velocity transmitter has internal velocity selector. Optional LCD display available.



Use

Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System

Air velocity and temperature measurement in air ducts

Used in all common HVAC applications

Used in Commercial and Industrial Buildings

eatures

Sensor with active output, optional control output 2-point (ON/OFF)

Internal selectable measuring range

Optional LCD display and control 2-point (ON/OFF) output

Professional and practical product design, withstands rough environmental conditions

Easy to use, install and maintain

Product Range

	Output		Display	
Model	0-10V	4-20mA	Relay	LCD
PDI1.AA	•	•		
PDI1.BA	•	•		•
PDI1.CA	•	•	•	•

Measuring Floring (c) Copies Macauring Floring (c) Copies		Sensor Specification	Measured	Temperature / Air Flow
Description Proceedings Process Supply Process ACTORS / Process Construction Proceedings Process Supply Process Construction Proceedings Process Construction	e G		Sensor Characteristics	Active / Active
Description Proceedings Process Supply Process ACTORS / Process Construction Proceedings Process Supply Process Construction Proceedings Process Construction	ij.		Sensor Output (s)	See Product Range, Page 1
Particle Information Pear dipply An 19-AC (CMS) or 17-AC (CMS)	<u>છ</u>		Output Load	Min. load 1k Ω @ AC/DC 24V / max. load 400 Ω @ DC 24V
Description Proceedings Process Supply Process ACTORS / Process Construction Proceedings Process Supply Process Construction Proceedings Process Construction	渡		Accuracy	± 0.5K over full measuring range;
Description Proceedings Process Proces	be			0.1m/s +5% of actual value;
Description Proceedings Process Proces	ഗ			0.5m/s = 5% of actual value;
Description Proceedings Process Proces	ō			1m/s + 5% of actual value
Description Proceedings Process Proces	Š		Measuring Range (s)	020m/s / 050°C
Description information Passive Engage Frequency Freque	ē		Optional Measuring Range (s)	02m/s; 010m/s
Cestical Information Power Gupty Fraguency Size A Colon Size Value Size	(O)		Passive Temperature Sensor	PT1000 & NTC10k
Terminal Clamp Power Consumption 10.74 / Schmar J. Act. May Collans J. Act. May		Electrical Information	<u> </u>	AC 15-24V (±10%) or DC 24V (±10%)
Power Consumption Rolls Parties Rolls Pa			Frequency	50 / 60 Hz at AC 24V
Mechanical Information Mechanical Informat			Terminal Clamp	Screw terminal, max. 1.5 mm ²
Mechanical Information Immersion Road Langers 1970			Power Consumption	DC 24V, \leq 50mA / AC 24V, \leq 40mA
Machanical Information Immediate Root Laugh Cable Erray Serving Element Position Hongs Statestion Disaly User Interface Color and Moderals User Interface Condition Color and Moderals User Interface Condition User Interface Condition User Interface Color and Moderals User Interface Color an			Relay Rating	AC 250V, max 6A; DC 30V, max. 6A
Description Position Positi		Mechanical Information		Ø10mm
Description			Immersion Rod Length	195mm
Deputy D				Dual entry, 2 x M16, Ø6Ø8mm cables
User Interface Display Loc Distance Display Loc Distance Display Loc Distance Display Loc Distance Display Loc Scores Cate Clard Gill of Nucleic Steal Liser General Date (Muster Steal Date (Muster				
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Color and Materials Color and Materials Color		User Interface		
Housing Bibliotion Lock Service Code (Gind Giny ABS, RALT-042 (Trailfic Giny A) Stop Comment Conditions Code (Gind Giny ABS, RALT-042 (Trailfic Giny A) White RNSOFT's Affacts (Trailfic White) Ring Code (Amount of Code) Ring Co				•
Caller Claired Claird Flusher Seal User element Digitary User alternate Digitary User alternate Digitary User alternate Digitary User Alta, 100 (Clair Clair		Total and indicated		
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Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Condition Storage Mechanical Condition Storage Mechanical Condition IEC 60 721-3-1 to class2M2 Terminal Connection Output 010V / 420mA (temperature) Tout V A Power supply Power supply GND Accessories Mounting Kit. Included in delivery Duct Mounting flange Shipping & Handling Minimum Order Product Dimension (L x W x H) / Weight Transport and Storage dimension (L x W x H) / Weight Package Material Order Note Order Code See Product Range, Page 1, e.g. PDI1AA			Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
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Terminal Connection Output 010V / 420mA (temperature) Output 010V / 420mA (velocity) Vout OND NC COM NO Accessories Mounting Kit. Included in delivery Shipping & Handling Minimum Order Product Dimension (L x W x H) / Weight Transport and Storage dimension (L x W x H) / Weight Package Material Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA			Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
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Shipping & Handling Minimum Order Product Dimension (L x W x H) / Weight 95mm x 85mm x 265mm / 135gr. Transport and Storage dimension (L x W x H) / Weight 925mm x 110mm x 100mm / 275gr. Package Material Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA				NO
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Shipping & Handling Minimum Order Product Dimension (L x W x H) / Weight 95mm x 85mm x 265mm / 135gr. Transport and Storage dimension (L x W x H) / Weight 925mm x 110mm x 100mm / 275gr. Package Material Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA				
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA		Accessories	Mounting Kit. Included in delivery	Duct Mounting flange
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA	(0			
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA	llanies	Shipping & Handling	Minimum Order	1 box with 1 piece
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA			Product Dimension (L x W x H) / Weight	95mm x 85mm x 265mm / 135gr.
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA			Transport and Storage dimension (L x W x H) $/$ Weight	325mm x 110mm x 100mm / 275gr.
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA	ğ		Package Material	Rigid Cardboards Packaging
Order Note Order Code See Product Range, Page 1, e.g. PDI1.AA	Jis			
All Information and technical data are subject to alteration	2	Order Note	Order Code	See Product Range, Page 1, e.g. PDI1.AA
All Information and technical data are subject to alteration				
The information and tools made are easy or to discretion		•	All Information and technical data are subject to alteration	

	Security Advice					
	A continu	The installation and assembly of electrical equipment may only be performed by a skilled electrician.				
	Caution	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	A supply case and center case to real strength in the supply case at the supply case and the supply case a				
	Z. Caution	relay contact. Both of the cable has its own cable entry.				
		The relay settings need to be done before high voltage (no safety extra-low voltage) is connected to the device. This ensures				
		human safety against electrical shock.				
		The device is equipped with a lid fixing crew. The screw need to be used when high voltage (no safety extra-low voltage) is				
တ		connected to the device.				
Advices	Installation Notes	The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and				
동	regulations.					
ĕ		A prerequisite for the operation is a proper installation of all electrical supply, control and sensing leads as well as the				
		pressurized connection line.				
		The air velocity transmitter is supplied with a special protective cap protecting the sensitive sensor element against damage				
		during transport. Before installing the AVT the cap must be removed necessarily.				
	Commissioning Notes					
	Caution	Sensing devices with transducers should in principle be operated in the middle of the measuring range.				
		The ambient temperature of the transducer electronics should be kept constant.				
		When switching the supply voltage on/off, power surges must be avoided on site.				
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Dimensional Drawing						
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		T Temperatur 420mA				
		V Velocity 420mA				
		Jumper for output mode (mA/V) T Temperatur 010V				
		Both outputs can be set independently O V Velocity 010V				
	↑	11 10 20 10 20				
Ε		J1 Jumper: J2				
<u>a</u>		Jumper measuring range				
iaç		Range: 2m/s 10m/s 20m/s				
		■ SW.P.				
<u>.</u>		<mark>∎ ∎</mark> llhyst.				
<u> </u>						
Selection Diagram		1				
σ	Jumper and Po	ush button for setting the relay parameters				
	·	r "switching point" (sw.p) and push the button to adjust the switching point of the relay. The value chosen (m/s) is shown on the				
	display.					
	Set the jumper	r "hysteresis" (hyst.) and push the button to adjust the hysteresis of the relay switching point. The value chosen (m/s) is shown in				
	the display.					
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