	TI40	1en	Technical Information			+1>	+bacmakaa®				
TOW1- Seri		es (T)	Outdoor Temperature Sensor			1116	asia pacific				
with Active Output											
The TOW1- Series (T) is designed to measure temperature in outdoor areas,											
plant rooms, cold stores, greenhouses, production plants and warehouses.											
The	The sensor operates with low voltage power supply										
The Temperature sensor is located in an external sensor pocket for a fast response											
	of temperature changes										
The temperature output is active											
	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System										
,	Temperature measuring in outdoor areas, stores, warehouses, production plants and greenhouses										
USE	Used	in all common	HVAC applications								
	llood										
	Useu	Used in Commercial and Industrial Buildings									
	Sense	Sensor with active output and selectable measuring ranges									
	Sensor Output 010V and 420mA										
Ires	Multip	Multiple (4) measuring ranges on board available									
Featu	Temperature Field calibration potentiometer										
	Professional and practical product design, withstands harsh environmental conditions										
	Easy	Easy to use, install and maintain									
		Order Codes	Power Supply	Active Output	Measuring ranges	IP Rating	Product				
						in ricking	dimension				
ange					-5050°C*						
duct R		TOW1.BE	\C/DC 24V (±10%)	010V*	0.5000	529	ε				
Prod				or	050°C	IEC60	8x45mı				
					-2080°C	IP65 to	78x5				
			4	420mA	0100°C						
		* default setting									
Thermokon	All Information and technical data are subject to alteration Thermokon Asia Pacific TOW1- Series (T) V22.1 Page 1/3 Page 1/3										

	Sensor Specification	Measured	Temperature		
Ľ		Sensor Characteristics	Active		
atic		Sensor Output (s)	010V / 420mA		
fica		Output Load			
eci		010V Output	Min. load 5kΩ @ AC/DC 24V		
Spe		420mA Output	Max. load 700Ω @ DC 24V		
P		Accuracy	± 0.5K over full measuring range		
sue		Temperature OFF-set Potentiometer	± 3k		
Š		Measuring Range (s)	-50°C50°C		
		Optional Measuring Range (s)	0°C…+100°C;-20°C…+80°C;0…50°C		
	Electrical Information	Power Supply	AC/DC 24V (±10%)		
		Frequency	50 / 60 Hz at AC 24V		
		Terminal Clarr	Screw terminal, max. 1.5mm ²		
		Power Consumption			
		010V output	≤ 0.4W / AC 24V; ≤ 0.85VA / DC 24V		
		420mA output	≤ 20mA / DC 24V		
	Mechanical Information	Sensor Pocket Diameter	6mm		
		Sensor Pocket Length	35mm		
		Cable Entry	M16, Ø6Ø8mm cables		
		Sensing Element Pos	external, top of the immersion rod		
	Color and Materials	Housing Cover	White ABS, RAL9001 (Cream White)		
		Housing Bottom	White ABS, RAL9001 (Cream White)		
		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)		
		Gland Rubber Seal	White IBS, RAL9010 (Pure White)		
_		Protection Caps	Red ABS, RAL2002 (Vermilion)		
ion		Immersion Rod	W N 1 301		
nat	Environmental Conditions	Operation Temperature	-25°C+70°C		
or		Operation Humidity	100% r.h., with condensation		
lnf		Transport Temperature	-35°C+70°C		
cal		Transport Humidity	< 90% r.h.		
in		Storage Temperature	-10°C+70°C		
ecl		Storage Humidity	< 85% r.h., no condensation		
F	Norms and Directives	IP- Rating	IP65 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		
			2004/108/EG Electromagnetic Compatibility		
		CE Conformities to	EMV		
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference		
		CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance		
		RoHS Compatibility	RoHS 3, Directive 2015/863		
		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		
neous	Accessories		n.a.		
	Shipping & Handling	Minimum Order	1 box with 2 pieces, multiple of 2 pieces		
ella		Package Material	Rigid Cardboards Packaging		
Misc		Order Code			
_		All Information and technical data are subject to alteration	IOMJ'RE		

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