00	TI13	52en	Technical Information					h	C	rm	okon®	
HPS2- Series (H_cs)			Pipe / Surface Condensation Sensor with ON/OFF output							а	sia pacific	
The HPS2- Series (H_cs) is designed to prevent dew formation												
on pipes or flat surfaces									\supset			
The sensors can be directly or remotely mounted								-				
The sensor operates with lower power supply HPS2.FA												
The control output relay is AC/DC 230V / DC30V									D			
The control output is ON/OFF										HF	PS2.EA	
	Co	mpatible to	all common HVAC	CDDC and Analog	Controls syste	ems, with/witl	nout B	uildi	ng /	Autom	ation System	
O	De	Dew formation protection in HVAC applications										
Use	Us	Used in all common HVAC applications										
	Us	Used in Commercial and Industrial Buildings										
	Co	Control output 2-point (ON/OFF)										
	LE	LED for instant status response										
Features		Internal sensitivity adjuster										
Fea												
		Professional and practical product design, withstands rough environmental conditions										
	Ea	sy to use, in	stall and maintain									
Product Range	С	order Code	Power Supply	Sensor Relay Output	Measuring / Setpoint Range	Sensor Loc	ocation		Dis	play	Protection	
		HPS2.EA		ontact NO / NC 230V 5A V 5A		below the se housing		ation LED	Green= Normal Operation / Red= Condensation	r LED	C60529	
		HPS2.FA	AC/DC 24V (±10%)	Change-Over Contact NO / NC AC/DC 230V 5A AC30V 5A	Measuring Range 0100% r.h. Setpoint Range 75100% r.h.	remote via 1n connectio		Condensation LED	Green= Normal Operatic	Green- Power CN	IP65 to IEC60529	
Thermokon A	Asia Pacific			All Information and technical HPS2- Series (H_cs)		ion					Page 1/3	

Thermokon Asia Pacific

	Sensor Specification	Measured	Humidity
Ď		Sensor Characteristics	Passive On/Off
Sensor		Response time	30sec for 75% r.h. rise
ñ		Switching hysteresis	approx. 4% r.h.
		Operating Range	0100% r.h.
	Electrical Information	Power Supply	AC/DC 24V (±10%)
		Frequency	50 / 60 Hz at AC 24V
		Power Consumption	24V; ≤ 0.8W / ≤ 1.6VA
		Relay Type	Potential free NO or NC
		Relay Rating	AC/DC230V 5A / DC30V 5A
		Terminal Clamp	Screw terminal, max. 1.5mm ²
	Mechanical Information	Sensor Cable Length HPS2.EA	n.a.
		Sensor Cable Length HPS2.FA	1m
		Sensor Cable Lead Diameter HPS2.FA	Ø0.25mm
		Sensor Cable Diameter HPS2.FA	Ø4mm
		Cable Entry - Supply Power	M16, Ø6Ø8mm cables
		Sensing Element Position	
		HPS2.EA	external, bottom of the housing
		HPS2.FA	external, 2m cable with contact plate
	User Interface	Set Point Adjustments	75%100%
		Set Point Symbols	- Adjust +
		Condensation LED	Green LED = Normal Operation;
			Red LED = Condensate water detected
		Power LED	Green = Power ON
	Color and Materials	Housing Cover	Light grey , ABS+PC
		-	
		Housing Cover	Light grey , ABS+PC
		Housing Bottom	Light grey, ABS+PC
5		Cable Gland	White PA6, RAL9010 (Pure White)
		Gland Rubber Seal	Black ENSOFT50
5		Clamp Fastener	PVC
		Connect Plate	Copper
5		Cable HPS2.FA	Grey PVC, RAL7042 (Traffic Grey A)
-	Environmental Conditions	Operation Temperature	0°C+60°C
		Operation Humidity	100% r.h., with condensation
		Transport Temperature	-35°C+70°C
		Transport Humidity	< 90% r.h.
		Storage Temperature	-10°C+70°C
		Storage Humidity	< 85% r.h., no condensation
	Norms and Directives	IP- Rating	IP65 to IEC60529
		Safety Class	III to EN 60 730
			Automatic Electric. Controls for household
		Product Standard 1	and similar use
		Product Standard 2	2009/EN 60 730-1
		CE Conformities to	2004/108/EG Electromagnetic
		CE Electromographic Compatibility Emitted Interference	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 3, Directive 2015/863
		Operation Climatic Condition	IEC 60 721-3-3 IEC 60 721-3-2 to class2M2
		Operation Mechanical Condition Transport to Climatic Condition	IEC 60 721-3-2 to class2102 IEC 60 721-3-2
		Transport to Climatic Condition	IEC 60 721-3-2 IEC 60 721-3-2 to class2M2
		Storage Climatic Condition	IEC 60 721-3-2 10 Class2102
		Storage Mechanical Condition	IEC 60 721-3-1 IEC 60 721-3-1 to class2M2
)	Accessories	Mounting Kit, Included in delivery	HPS2.EA 1x clamping piece max. DN 10
5	100000000000		HPS2.EA 1x clamping piece max. DN 10 HPS2.FA 2x cable fastener 300mm
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Package Material	Rigid Cardboards Packaging
2	Order Notes	Order Code	See Product Range, Page 1, e.g. HPS2.E

	Installation Notes	5					
Advices	Caution	Observe the following general regulation for engineering and implementation:					
	oddion	All relevant national and heavy power regulation					
		Other country specific regulations					
		Country-specific regulations					
		Local electrical supply authority regulation					
		Schematics, cable listings, dispositions, specification and arrangements from the customer					
		or engineering office in charge					
		Third party specifications, e.g. general contractors or constructors					
	Mounting Advice	s					
	Disposal Notes	The device is considered an electronic device for disposal in terms of the					
		EUROPEAN DIRECTIVE 2012/19/EU.					
	X	The device may not be disposed as domestic garbage.					
		The device must be disposed through channels provided for this purpose.					
		It is mandatory to complying with local currently applying laws and regulations.					
Dimensional Drawing	Contact surface	m 66 m 66 m 6 m 6 m 6 m 6 m 6 m					
Connection	Einstellung Schaltpunkt POWER-LED Drill for mounting Connector as	Renstitivity CD AV					
Thermokor	Asia Pacific	All Information and technical data are subject to alteration HPS2- Series (H_cs) V23.1	Page 3/3				