



Product Catalogue 2022

Home of Sensor Technology

The efficient sensor manufacturer for an economical and sustainable partnership

Thermokon Asia Pacific is committed to design, manufacture and distribute sensor devices with outstanding quality and functionality.

Our products are designed with over 30 years of engineering history and mainly manufactured in Germany and China to the highest standards.

We will ensure that our products are supported over the whole life cycle, from pre-sales support to the after-sales services.

We market our products and services at fair prices to support our customers' businesses.

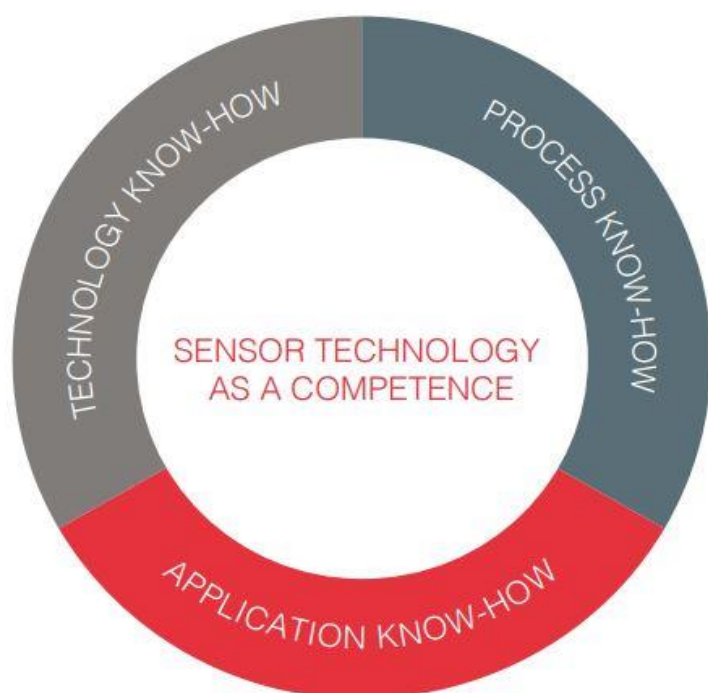
We strive to be an innovative, independent sensor supplier in the HVAC markets across Asia Pacific.

Our roots are in Germany, our future is in Asia Pacific.

We have the required technical know-how to deliver customized and efficient sensor solutions as well as services.

We know and understand our customers' applications. As a TEAM, we cooperate on an advanced level.

We understand our customers' value-added chain and support them to achieve their targets.



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Temperature Passive Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Room Wall Sensor	PT100	White housing 86x86x25mm	WRW2.AF	± 0.3K @ 0°C, Class A	IP20	5-Year
	PT1000		TRW2.AG	± 0.3K @ 0°C, Class A		
	NTC10k		TRW2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TRW2.AQ	± 0.25K @ 25°C		
	NTC20k		TRWA.FR	± 0.25K @ 25°C		
 Room Pendulum Sensor	PT100	SS304 Pendulum / Black cable	TRP2.AF	± 0.3K @ 0°C, Class B	IP65	5-Year
	PT1000		TRP2.AG	± 0.3K @ 0°C, Class B		
	NTC10k		TRP2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TRP2.AQ	± 0.25K @ 25°C		
	NTC20k		TRP2.AR	± 0.25K @ 25°C		
	PT100		TRP2.BF	± 0.3K @ 0°C, Class B		
	PT1000		TRP2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TRP2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TRP2.BQ	± 0.25K @ 25°C		
	NTC20k		TRP2.BR	± 0.25K @ 25°C		
 Room Ceiling Sensor	PT100	White Housing / Grey cable	TRC2.AF	± 0.3K @ 0°C, Class B	IP30	5-Year
	PT1000		TRC2.AG	± 0.3K @ 0°C, Class B		
	NTC10k		TRC2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TRC2.AQ	± 0.25K @ 25°C		
	NTC20k		TRC2.AR	± 0.25K @ 25°C		
	PT100		TRC2.BF	± 0.3K @ 0°C, Class B		
	PT1000		TRC2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TRC2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TRC2.BQ	± 0.25K @ 25°C		
	NTC20k		TRC2.BR	± 0.25K @ 25°C		
 Frost Protection Switch	ON/OFF	SP= 1...7.5°C L= 1.5m	TDE2.CAa	Switching Differential 2k±1	IP54	5-Year
	SPDT (NC)	SP= 1...7.5°C L= 3m	TDE2.DAa			
	AC 250V 5A (4)	SP= 1...7.5°C L= 6m	TDE2.EAa			
 Duct Average Sensor	PT1000	L= 3m	TDE2.AGa	± 0.3K @ 0°C, class B	IP65	5-Year
	PT1000	L= 6m	TDE2.BGa	± 0.3K @ 0°C, class B		

Temperature Passive Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Pipe Surface Sensor	PT100	Ø DN15...DN65 L= 1m, red cable	TPS2.BF	± 0.3K @ 0°C, Class B	IP65	5- Year
	PT1000		TPS2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TPS2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TPS2.BQ	± 0.25K @ 25°C		
	NTC20k		TPS2.BR	± 0.25K @ 25°C		
	PT100	Ø DN15...DN65 L=2m, red cable	TPS2.CF	± 0.3K @ 0°C, Class B		
	PT1000		TPS2.CG	± 0.3K @ 0°C, Class B		
	NTC10k		TPS2.CP	± 0.25K @ 25°C		
	NTC10k Pre		TPS2.CQ	± 0.25K @ 25°C		
	NTC20k		TPS2.CR	± 0.25K @ 25°C		
 Universal Surface Sensor	PT100	Flat surface L= 1m, red cable	TUS2.AF	± 0.3K @ 0°C, Class B	IP65	5- Year
	PT1000		TUS2.AG	± 0.3K @ 0°C, Class B		
	NTC10k		TUS2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TUS2.AQ	± 0.25K @ 25°C		
	NTC20k		TUS2.AR	± 0.25K @ 25°C		
	PT100	Flat surface L=2m, red cable	TUS2.BF	± 0.3K @ 0°C, Class B		
	PT1000		TUS2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TUS2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TUS2.BQ	± 0.25K @ 25°C		
	NTC20k		TUS2.BR	± 0.25K @ 25°C		
 Universal Cable Sensor	PT100	Ø6mmx50mm L= 1m, red cable	TUU2.AF	± 0.3K @ 0°C, Class B	IP65	5- Year
	PT1000		TUU2.AG	± 0.3K @ 0°C, Class B		
	NTC10k		TUU2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TUU2.AQ	± 0.25K @ 25°C		
	NTC20k		TUU2.AR	± 0.25K @ 25°C		
	PT100	Ø6mmx50mm L=2m, red cable	TUU2.BF	± 0.3K @ 0°C, Class B		
	PT1000		TUU2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TUU2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TUU2.BQ	± 0.25K @ 25°C		
	NTC20k		TUU2.BR	± 0.25K @ 25°C		

Temperature Passive Sensors



Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
Outdoor Wall Sensor	PT100	White housing 78x58x45mm Ø6mmx14mm	TOW2.BF	± 0.3K @ 0°C, Class B	IP65	5- Year
	PT1000		TOW2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TOW2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TOW2.BQ	± 0.25K @ 25°C		
	NTC20k		TOW2.BR	± 0.25K @ 25°C		
Pipe Immersion Sensor	PT100	White housing 65x50x45mm Ø4mmx50mm R1/2"	TPI2.AF	± 0.3K @ 0°C, Class B	IP65	5- Year
	PT1000		TPI2.AG	± 0.3K @ 0°C, Class B		
	NTC10k		TPI2.AP	± 0.25K @ 25°C		
	NTC10k Pre		TPI2.AQ	± 0.25K @ 25°C		
	NTC20k		TPI2.AR	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx100mm R1/2"	TPI2.GF	± 0.3K @ 0°C, Class B		
	PT1000		TPI2.GG	± 0.3K @ 0°C, Class B		
	NTC10k		TPI2.GP	± 0.25K @ 25°C		
	NTC10k Pre		TPI2.GQ	± 0.25K @ 25°C		
	NTC20k		TPI2.GR	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx150mm R1/2"	TPI2.BF	± 0.3K @ 0°C, Class B		
	PT1000		TPI2.BG	± 0.3K @ 0°C, Class B		
	NTC10k		TPI2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TPI2.BQ	± 0.25K @ 25°C		
	NTC20k		TPI2.BR	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx200mm R1/2"	TPI2.CF	± 0.3K @ 0°C, Class B		
	PT1000		TPI2.CG	± 0.3K @ 0°C, Class B		
	NTC10k		TPI2.CP	± 0.25K @ 25°C		
	NTC10k Pre		TPI2.CQ	± 0.25K @ 25°C		
	NTC20k		TPI2.CR	± 0.25K @ 25°C		

Temperature Passive Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Duct Immersion Sensor	PT100	White housing 65x50x45mm Ø6mmx50mm	TDI2.AFa	± 0.3K @ 0°C, Class B	IP65	5-Year
	PT1000		TDI2.AGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.APa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.AQa	± 0.25K @ 25°C		
	NTC20k		TDI2.ARa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx50mm	TDI2.GFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.GGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.GPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.GQa	± 0.25K @ 25°C		
	NTC20k		TDI2.GRa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx150mm	TDI2.BFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.BGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.BPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.BQa	± 0.25K @ 25°C		
	NTC20k		TDI2.BRa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx200mm	TDI2.CFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.CGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.CPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.CQa	± 0.25K @ 25°C		
	NTC20k		TDI2.CRa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx250mm	TDI2.FFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.FGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.FPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.FQa	± 0.25K @ 25°C		
	NTC20k		TDI2.FRa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx300mm	TDI2.DFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.DGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.DPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.DQa	± 0.25K @ 25°C		
	NTC20k		TDI2.DRa	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx450mm	TDI2.EFa	± 0.3K @ 0°C, Class B		
	PT1000		TDI2.EGa	± 0.3K @ 0°C, Class B		
	NTC10k		TDI2.EPa	± 0.25K @ 25°C		
	NTC10k Pre		TDI2.EQa	± 0.25K @ 25°C		
	NTC20k		TDI2.ERa	± 0.25K @ 25°C		

Temperature Active Sensors

	Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
	Room Wall Sensor AC/DC 24V	0...10V 4...20mA	White housing 86x86x25mm	TRW1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP20	5-Year
	Room Pendulum Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TRP1.AE L = 2m TRP1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5-Year
	Room Ceiling Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TRC1.AE L = 2m TRC1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP30	5-Year
	Pipe Surface Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TPS1.BE L = 2m TPS1.CE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5-Year
	Universal Surface Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TUS1.AE L = 2m TUS1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5-Year
	Universal Cable Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm $\varnothing 6\text{mm} \times 50\text{mm}$	L = 1m TUU1.EE L = 2m TUU1.FE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5-Year
	Outdoor Wall Sensor AC/DC 24V	0...10V 4...20mA	White housing 78x58x45.5mm $\varnothing 6\text{mm} \times 14\text{mm}$	TOW1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5-Year

Temperature Active Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Duct Average Sensor AC/DC 24V	0...10V	White housing 68x63x40mm	L = 3m TDE1.AAa	typ. $\pm 0.5^{\circ}\text{C}$ @ 21°C	IP65	5- Year
	0...10V		L = 6m TDE1.BAa	typ. $\pm 0.5^{\circ}\text{C}$ @ 21°C		
	4...20mA		L = 3m TDE1.ADa	typ. $\pm 0.5^{\circ}\text{C}$ @ 21°C		
	4...20mA		L = 6m TDE1.BDa	typ. $\pm 0.5^{\circ}\text{C}$ @ 21°C		
 Pipe Immersion Sensor AC/DC 24V	0...10V 4...20mA	White housing 65x50x45mm R1/2"	Ø4x50mm TPI1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
			Ø6x100mm TPI1.GE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x150mm TPI1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x200mm TPI1.CE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
 Duct Immersion Sensor AC/DC 24V	0...10V 4...20mA	White housing 65x50x45mm	Ø6x50mm TDI1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
			Ø6x100mm TDI1.GE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x150mm TDI1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x200mm TDI1.CE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x250mm TDI1.FE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x300mm TDI1.DE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x450mm TDI1.EE	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		

Humidity Sensors

Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
 Surface Condensation Switch AC/DC 24V	ON/OFF SPDT (NC) AC 24V 1A	White housing 68x63x40mm	2 Status LEDs	HPS2.AAa	Switching sensitivity adjustable via potentiometer	IP65	5- Year
			2 Status LEDs L = 2m	HPS2.BAa			
 Surface Leakage Switch AC/DC 24V	ON/OFF SPDT (NC) AC 24V 1A	White housing 68x63x40mm	2 Status LEDs	HPS2.CAa	Switching sensitivity adjustable via adjusting detector height	IP65	5- Year
 Room Humidity-Temperature Sensor AC/DC 24V	0...10V 4...mA	White housing 86x86x25mm		CRW4.AE	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2\%$ within 0...100% r.h.	IP20	5- Year
 Duct Humidity-Temperature Sensor AC/DC 24V	0...10V 4...mA	White housing 78x58x45.5mm	L = 140mm	CDI4.AE	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2\%$ within 0...100% r.h.	IP65	5- Year
			L = 270mm	CDI4.BE			
 Ceiling Humidity-Temperature Sensor AC/DC 24V	0...10V 4...mA	White housing 78x58x45.5mm	L = 1m	CRC4.AE	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2\%$ within 0...100% r.h.	IP30	5- Year
			L = 2m	CRC4.BE			
 Pendulum Humidity-Temperature Sensor AC/DC 24V	0...10V 4...mA	White housing 78x58x45.5mm	L = 1m	CRP4.AE	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2\%$ within 0...100% r.h.	IP65	5- Year
			L = 2m	CRP4.BE			
 Outdoor Humidity-Temperature Sensor AC/DC 24V	0...10V 4...mA	White housing 78x58x45.5mm	Measuring pocket Ø19x50mm	COW4.AE	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2\%$ within 0...100% r.h.	IP65	5- Year

Air Quality Sensors

	Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
	Room Air Quality (CO2) Sensor AC/DC 24V	0...10V	White housing 86x86x25mm		GRW1.BA	Air Quality (CO2) ± 50ppm +3% act. value	IP20	5- Year
	Duct Air Quality (CO2) Sensor AC/DC 24V	0...10V 4...20mA	White housing 90x66x52mm L= 150mm		GDI1.HE	Air Quality (CO2) ± 50ppm +5% act. value	IP65	5- Year
	Universal Air Quality (CO2) Sensor AC/DC 24V	0...10V 4...20mA	White housing 90x66x52mm		GUW1.AE	Air Quality (CO2) ± 50ppm +3% act. value	IP65	5- Year
	Room Air Quality (VOC) Sensor AC/DC 24V	0...10V	White housing 86x86x25mm		GRW1.AA	n/a	IP20	5- Year
	Duct Air Quality (VOC) Sensor AC/DC 24V	0...10V	White housing 90x66x52mm L= 150mm		GDI1.BAa	Air Quality (VOC) ± 10%	IP65	5- Year
	Room Air Quality (CO)- Temperature Sensor AC/DC 24V	0...10V 4...20mA	White housing 115x83x30mm	non	100PPM	Air Quality (CO) ±5% Full Scale Temperature typ. ±2°C @ 20°C	IP30	5- Year
				LCD	400PPM			
					100PPPM			
				LCD	400PPM			
	Duct Air Quality (CO) Sensor AC/DC 24V	0...10V 4...20mA	White housing 136x82x47mm	100PPM		GDI1.MB	IP54	5- Year
				400PPM		GDI1.NB		
	Room Air Quality (PM) Sensor AC/DC 24V	0...10V 4...20mA	White housing 115x83x30mm	non	2.5PM	Air Quality (PM) ±10% Full Scale	IP20	5- Year
				LCD	10PM			
					2.5PM			
				LCD	10PM			
	Duct Air Quality (PM) Sensor AC/DC 24V	0...10V 4...20mA	White housing 110x75x32mm	PM2.5		GDI1.RE	IP65	5- Year
				PM10		GDI1.TE		
	Room Air Quality (CO2), Humidity, Temperature Sensor ACDC 24V	0...10V	White housing 86x86x25mm		CRW5.NE	Temperature typ. ±0.5°C Humidity ±2% full scale Air Quality ± 50ppm +3% value	IP20	5- Year
	Duct Air Quality (CO2), Humidity and Temperature Sensor AC/DC 24V	0...10V	White housing 90x66x52mm		CDI5.FBa	Temperature typ. ±0.5°C Humidity ±2% full scale Air Quality ± 40ppm +4% value	IP65	5- Year

Air Pressure Devices

Product Specification	Sensor Outputs	Product Specifics				Order Code	Sensor Accuracy	IP Class	Warranty	
Air Differential Pressure Sensor AC/DC 24V	0...10V 4...20mA	White housing 90x66x52mm	0...50Pa 0...100Pa 0...250Pa 0...500Pa			PDE1.CE	3% of reading	IP65	5- Year	
			0...750Pa 0...1000Pa 0...250Pa 0...1500Pa			PDE1.DE	6% of reading			
Air Differential Pressure Sensor AC/DC 24V	0...10V 4...20mA	Grey housing 90x72x36mm	n/a	8 Ranges	0...250Pa	PDE1.OA	(dP ≤ 2500Pa)	IP54	5- Year	
					0...2500Pa	PDE1.EA	<125Pa= 1% ±2Pa			
					0...7000Pa	PDE1.FA	>125Pa= 1% ±1Pa			
			LCD		0...250Pa	PDE1.PA	(dP ≥ 2500Pa)			
					0...2500Pa	PDE1.GA	<125Pa= 1.5% ±2Pa			
					0...7000Pa	PDE1.HA	>125Pa= 1.5% ±1Pa			
Air Velocity-Temperature Sensor AC/DC 24V	0...10V 4...20mA	Grey housing 90x72x36mm L= 210mm	n/a	0...2m/s 0...10m/s 0...20m/s	n/a	PDI1.AA	<0.5m/s +5% of actual value	IP54	5- Year	
			LCD							PDI1.BA
										Relay
Air Differential Pressure Switch	ON/OFF SPDT (NC) AC 250V 3A (1)	20...200Pa				PDE2.NAb	±15%	IP54	5- Year	
		30...300Pa				PDE2.AAb	±15%			
		50...500Pa				PDE2.BAb	±15%			
		200...1000Pa				PDE2.CAb	±15%			
		500...2500Pa				PDE2.DAb	±15%			
		300...1500Pa				PDE2.EAb	±15%			
Air Differential Pressure Gauge	n/a	0...60Pa				PDE2.LD	±4% full scale	IP54	5- Year	
		0...100Pa				PDE2.MD	±3% full scale			
		0...250Pa				PDE2.OD	±3% full scale			
		0...500Pa				PDE2.PD	±3% full scale			
		0...1000Pa				PDE2.QD	±2% full scale			
		-30...30Pa				PDE2.RD	±4% full scale			
		-60...60Pa				PDE2.SD	±4% full scale			
		-120...120Pa				PDE2.TD	±3% full scale			
		-250...250Pa				PDE2.UD	±3% full scale			
		-500...500Pa				PDE2.VD	±2% full scale			

Water Sensors / Water Switches

Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
 Pipe Pressure Immersion Sensor AC/DC 24V	0...10V	G1/4", male thread	0...1bar	PPI1.BAa	< 0.5% full scale	IP67	5- Year
	0...10V		0...2bar	PPI1.DAa	< 0.5% full scale		
	0...10V		0...2.5bar	PPI1.EAa	< 0.5% full scale		
	0...10V		0...4bar	PPI1.FAa	< 0.5% full scale		
	0...10V		0...6bar	PPI1.GAa	< 0.5% full scale		
	0...10V		0...10bar	PPI1.HAa	< 0.5% full scale		
	0...10V		0...16bar	PPI1.IAa	< 0.5% full scale		
	0...10V		0...25bar	PPI1.KAa	< 0.5% full scale		
	0...10V		0...40bar	PPI1.LAa	< 0.5% full scale		
	0...10V		0...60bar	PPI1.MAa	< 0.5% full scale		
	0...10V		0...100bar	PPI1.NAa	< 0.5% full scale		
	4...20mA	G1/4", male thread	0...1bar	PPI1.BDa	< 0.5% full scale	IP67	5- Year
	4...20mA		0...2bar	PPI1.DDa	< 0.5% full scale		
	4...20mA		0...2.5bar	PPI1.EDa	< 0.5% full scale		
	4...20mA		0...4bar	PPI1.FDa	< 0.5% full scale		
	4...20mA		0...6bar	PPI1.GDa	< 0.5% full scale		
	4...20mA		0...10bar	PPI1.HDa	< 0.5% full scale		
	4...20mA		0...16bar	PPI1.IDa	< 0.5% full scale		
	4...20mA		0...25bar	PPI1.KDa	< 0.5% full scale		
	4...20mA		0...40bar	PPI1.LDa	< 0.5% full scale		
	4...20mA		0...60bar	PPI1.MDa	< 0.5% full scale		
	4...20mA		0...100bar	PPI1.NDa	< 0.5% full scale		
 Pipe Differential Pressure Sensor AC/DC 24V	0...10V	G1/4", female thread	0...0.5bar	PPE1.EAa	< 0.5% full scale	IP67	5- Year
	0...10V		0...1bar	PPE1.AAa	< 0.5% full scale		
	0...10V		0...2.5bar	PPE1.BAa	< 0.5% full scale		
	0...10V		0...4bar	PPE1.CAa	< 0.5% full scale		
	0...10V		0...6bar	PPE1.DAa	< 0.5% full scale		
	4...20mA	G1/4", female thread	0...0.5bar	PPE1.EDa	< 0.5% full scale		
	4...20mA		0...1bar	PPE1.ADa	< 0.5% full scale		
	4...20mA		0...2.5bar	PPE1.BDa	< 0.5% full scale		
	4...20mA		0...4bar	PPE1.CDa	< 0.5% full scale		
	4...20mA		0...6bar	PPE1.DDa	< 0.5% full scale		
 Water Differential Pressure Switch	ON/OFF SPDT (NC) AC 250V 10A	Screw connection	0.1bar	PPE2.AA	Repeatability < 1%.	IP65	5- Year
			0.2bar	PPE2.BA			
			0.25bar	PPE2.CA			
			0.3bar	PPE2.DA			
			0.4bar	PPE2.EA			
			0.05bar	PPE2.FA			
 Water Flow Paddle Switch	ON/OFF SPDT (NC) AC 250V 3A	G3/4"	DN32...65	PPI2.AA	Repeatability < 1%.	IP65	5- Year
		G1"	DN80...250	PPI2.BA			
 Water Level Switch	ON/OFF SPDT (NC) AC 250V 16A	Cable L=2m		AUS2.AA	Repeatability < 1%	IP68	5- Year
		Cable L=3m		AUS2.BA			
		Cable L=5m		AUS2.CA			
		Cable L=10m		AUS2.DA			
		Cable L=20m		AUS2.EA			

Light and Motion Devices

Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Specifics	IP Class	Warranty
 Room Light Sensor AC/DC 24V	0...10V	White housing 85x85x25mm	0...2k Lux 0...20k Lux 0...100k Lux	LRW1.AA	Accuracy: ±5% full scale	IP30	5- Year
	4...20mA			LRW1.AD			
 Outdoor Light Sensor AC/DC 24V	0...10V	White bottom / Clear cover 85x65x45mm	0...200 Lux; 0...1k Lux 0...2k Lux; 0...10k Lux 0...20k Lux; 0...50k Lux	LOW1.AAa	Accuracy: ±5% full scale	IP65	5- Year
	4...20mA			LOW1.ADa			
 Room Ceiling Light Sensor AC/DC 24V	0...10V	White bottom 85x65x45mm	0...200 Lux; 0...1k Lux 0...2k Lux; 0...10k Lux 0...20k Lux; 0...50k Lux	LRC1.AAa	Accuracy: ±5% full scale	IP65	5- Year
	4...20mA			LRC1.ADa	For selected areas		
	0...10V			LRC1.BAa	Accuracy: ±5% full scale		
	4...20mA			LRC1.BDa	For large areas		
 Room Motion Sensor AC/DC 24V	ON/OFF SPDT (NO) 24V 1A	Wall Mounted White housing 85x85x25mm	Flush Mounted White housing 55x55x8mm	MRW2.AA	Accuracy: ±5% full scale Detection Range: max. 8m	IP30	5- Year
				MRW2.BA			
 Room Ceiling Motion Switch AC/DC 24V	ON/OFF SPDT (NO) 24V 1A	False Ceiling installation White housing Ø30mm cover with 100mm installation cable		MRC2.AA	Standard Range appr. 16x12m@5m height	IP20	5- Year
				MRC2.BA	Small Range appr. 7.4x5.7m@2.5m height		
				MRC2.CA	Spot Range appr. 2x1.4m@2m height		
 Room Ceiling Light and Motion Sensor AC/DC 24V	Light Output 0...10V	False Ceiling installation White housing Ø90mm Cover		CRC1.AG	Accuracy Light: ±50 Lux	IP20	5- Year
	Motion Output ON/OFF SPDT (NO) 24V 1A				Detection Range: Recommended max Ø7m @ 2.7m height		

BACNET Temperature Sensors



Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
Room Wall Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 86x86x23mm		TRW9.AA	typ. ±0.2°C @ 20°C	IP20	5-Year
Room Pendulum Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L= 1m	TRP9.AA	typ. ±0.2°C @ 20°C	IP65	5-Year
			L= 2m	TRP9.BA			
Room Ceiling Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L= 1m	TRC9.AA	typ. ±0.2°C @ 20°C	IP30	5-Year
			L= 2m	TRC9.BA			
Pipe Surface Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L= 1m	TPS9.AA	typ. ±0.2°C @ 20°C	IP65	5-Year
			L= 2m	TPS9.BA			
Universal Surface Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L= 1m	TUS9.AA	typ. ±0.2°C @ 20°C	IP65	5- Year
			L= 2m	TUS9.BA			
Universal Cable Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm Ø6mmx50mm	L= 1m	TUU9.AA	typ. ±0.2°C @ 20°C	IP65	5- Year
			L= 2m	TUU9.BA			
Outdoor Wall Sensor AC/DC24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm Ø6mmx35mm		TOW9.AA	typ. ±0.2°C @ 20°C	IP65	5- Year

BACNET Temperature Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Pipe Immersion Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 65x50x45mm R1/2"	Ø4x50mm TPI9.AA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
			Ø6x100mm TPI9.GA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x150mm TPI9.BA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x200mm TPI9.CA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
 Duct Immersion Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 65x50x45mm	Ø6x50mm TDI9.AA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
			Ø6x100mm TDI9.GA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x150mm TDI9.BA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x200mm TDI9.CA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x250mm TDI9.FA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x300mm TDI9.DA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		
			Ø6x450mm TDI9.EA	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C		

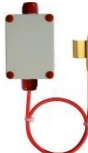
BACNET Humidity Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
Room Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 86x86x25mm	CRW9.AA	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP20	5- Year
Duct Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L=140mm CDI9.AA	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L=270mm CDI9.BA			
Ceiling Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L=1m CRC9.AA	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 1.8\%$ within 0...100% r.h.	IP30	5- Year
			L=2m CRC9.BA			
Pendulum Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L=1m CRP9.AA	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L=2m CRP9.BA			
Outdoor Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L=50mm COW9.AA	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year

BACNET Air Quality / Air Differential Pressure Sensor

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
Duct Air Quality (CO ₂) Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 90x66x52mm	L=150mm GDI9.AA	Air Quality $\pm 50\text{ppm} + 3\%$ value	IP20	5- Year
Universal Air Quality (CO ₂) Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 90x66x52mm with 2 air inlets	GUW9.AA	Air Quality $\pm 50\text{ppm} + 3\%$ value		
Air Differential Pressure Sensor AC/DC24V	BACNET MS/TP (RS485)	White housing 90x66x52mm with 2 air inlets	PDE9.AA	3Pa +1% of reading	IP65	5- Year

MODBUS Temperature Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Room Wall Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 86x86x25mm	TRW9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP20	5- Year
 Room Pendulum Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm L = 1m	TRP9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
		L = 2m	TRP9.BG			
 Room Ceiling Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm L = 1m	TRC9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP30	5- Year
		L = 2m	TRC9.BG			
 Pipe Surface Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm L = 1m	TPS9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
		L = 2m	TPS9.BG			
 Universal Surface Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm L = 1m	TUS9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
		L = 2m	TUS9.BG			
 Universal Cable Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm Ø6mmx50mm L = 1m	TUU9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year
		L = 2m	TUU9.BG			
 Outdoor Wall Sensor AC/DC24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm Ø6mmx35mm	TOW9.AG	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	IP65	5- Year

MODBUS Temperature Sensors

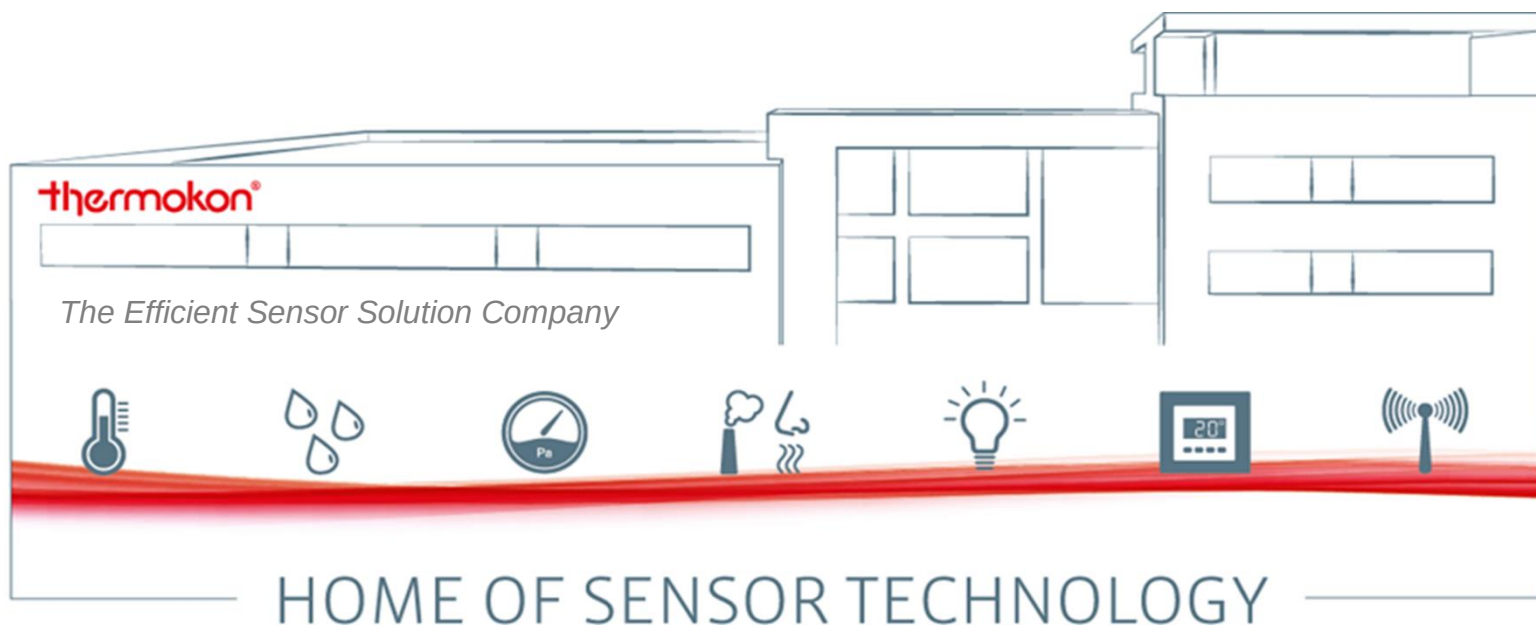
Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 Pipe Immersion Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 65x50x45mm R1/2"	Ø4x50mm TPI9.AG	typ. ±0.2°C @ 20°C	IP65	5- Year
			Ø6x100mm TPI9.GG	typ. ±0.2°C @ 20°C		
			Ø6x150mm TPI9.BG	typ. ±0.2°C @ 20°C		
			Ø6x200mm TPI9.CG	typ. ±0.2°C @ 20°C		
 Duct Immersion Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 65x50x45mm	Ø6x50mm TDI9.AG	typ. ±0.2°C @ 20°C	IP65	5- Year
			Ø6x100mm TDI9.GG	typ. ±0.2°C @ 20°C		
			Ø6x150mm TDI9.BG	typ. ±0.2°C @ 20°C		
			Ø6x200mm TDI9.CG	typ. ±0.2°C @ 20°C		
			Ø6x250mm TDI9.FG	typ. ±0.2°C @ 20°C		
			Ø6x300mm TDI9.DG	typ. ±0.2°C @ 20°C		
			Ø6x450mm TDI9.EG	typ. ±0.2°C @ 20°C		

MODBUS Humidity Sensors

Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
Room Humidity-Temperature Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 86x86x25mm		CRW9.AG	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP20	5- Year
Duct Humidity-Temperature Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm	L= 140mm	CDI9.AG	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L= 270mm	CDI9.BG			
Ceiling Humidity-Temperature Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm	L=1m	CRC9.AG	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP30	5- Year
			L= 2m	CRC9.BG			
Pendulum Humidity-Temperature Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm	L= 1m	CRP9.AG	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L= 2m	CRP9.BG			
Outdoor Humidity-Temperature Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 78x58x45.5mm	L= 50mm	COW9.AG	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year

MODBUS Air Quality / Air Differential Pressure Sensor

Product Specification	Sensor Outputs	Product Specifics		Order Code	Sensor Accuracy	IP Class	Warranty
Duct Air Quality (CO ₂) Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 90x66x52mm	L= 150mm	GDI9.AG	Air Quality $\pm 50\text{ppm} + 3\%$ value	IP20	5- Year
Universal Air Quality (CO ₂) Sensor AC/DC 24V	MODBUS RTU (RS485)	White housing 90x66x52mm with 2 air inlets		GUW9.AG	Air Quality $\pm 50\text{ppm} + 3\%$ value	IP54	5- Year
Air Differential Pressure Sensor AC/DC24V	MODBUS RTU (RS485)	White housing 90x66x52mm with 2 air inlets		PDE9.AG	3Pa +1% of reading	IP65	5- Year



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