



## Product Catalogue

## 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 manufactured in Germany, China and in Bangalore, India beginning Y2024 under "Make in India" 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.

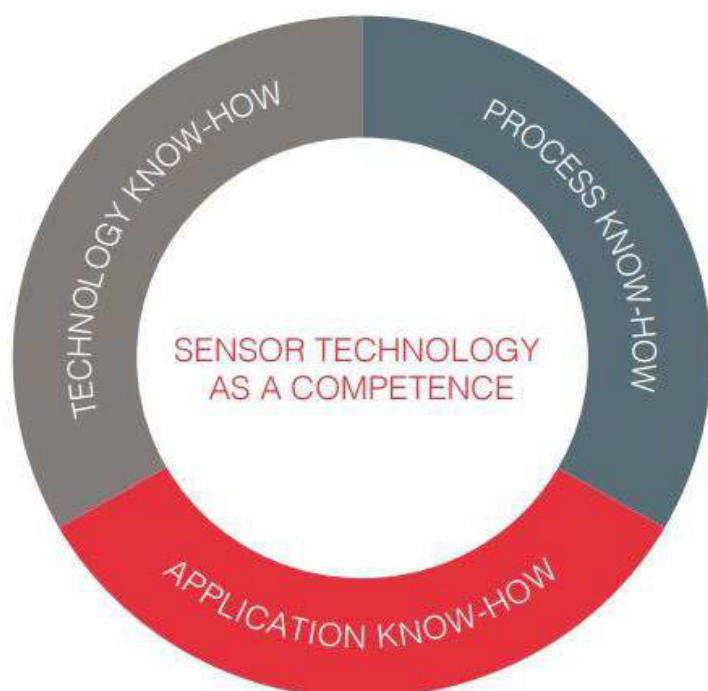
We strive to be an innovative, independent sensor supplier in the HVAC markets across Asia Pacific.

**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	± 0.15 @ 0°C, Class A	IP20	5-Year
	PT1000		TRW2.AG	± 0.15 @ 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	± 0.15 @ 0°C, Class A	IP65	5-Year
	PT1000		TRP2.AG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TRP2.BG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A	IP30	5-Year
	PT1000		TRC2.AG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TRC2.BG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A	IP65	5-Year
	PT1000	L= 6m	TDE2.BGa	± 0.15 @ 0°C, Class A		

## 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	± 0.15 @ 0°C, Class A	IP65	5- Year
	PT1000		TPS2.BG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TPS2.CG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A	IP65	5- Year
	PT1000		TUS2.AG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TUS2.BG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A	IP65	5- Year
	PT1000		TUU2.AG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TUU2.BG	± 0.15 @ 0°C, Class A		
	NTC10k		TUU2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TUU2.BQ	± 0.25K @ 25°C		
	NTC20k		TUU2.BR	± 0.25K @ 25°C		


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## Temperature Passive Sensors







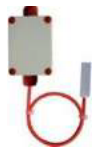


Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
Outdoor Wall Sensor	PT100	White housing 78x58x45mm Ø6mmx14mm	TOW2.BF	± 0.15 @ 0°C, Class A	IP65	5- Year
	PT1000		TOW2.BG	± 0.15 @ 0°C, Class A		
	NTC10k		TOW2.BP	± 0.25K @ 25°C		
	NTC10k Pre		TOW2.BQ	± 0.25K @ 25°C		
	NTC20k		TOW2.BR	± 0.25K @ 25°C		
Pipe Immersion Sensor	PT100	White housing 65x50x45mm Ø4mmx50mm R1/2"	TPI2.AF	± 0.15 @ 0°C, Class A	IP65	5- Year
	PT1000		TPI2.AG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TPI2.GG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TPI2.BG	± 0.15 @ 0°C, Class A		
	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	± 0.15 @ 0°C, Class A		
	PT1000		TPI2.CG	± 0.15 @ 0°C, Class A		
	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	<b>TDI2.AF</b> a	± 0.15 @ 0°C, Class A	IP65	5-Year
	PT1000		<b>TDI2.AG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.AP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.AQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.AR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx50mm	<b>TDI2.GF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.GG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.GP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.GQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.GR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx150mm	<b>TDI2.BF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.BG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.BP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.BQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.BR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx200mm	<b>TDI2.CF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.CG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.CP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.CQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.CR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx250mm	<b>TDI2.FF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.FG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.FP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.FQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.FR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx300mm	<b>TDI2.DF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.DG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.DP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.DQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.DR</b> a	± 0.25K @ 25°C		
	PT100	White housing 65x50x45mm Ø6mmx450mm	<b>TDI2.EF</b> a	± 0.15 @ 0°C, Class A		
	PT1000		<b>TDI2.EG</b> a	± 0.15 @ 0°C, Class A		
	NTC10k		<b>TDI2.EP</b> a	± 0.25K @ 25°C		
	NTC10k Pre		<b>TDI2.EQ</b> a	± 0.25K @ 25°C		
	NTC20k		<b>TDI2.ER</b> a	± 0.25K @ 25°C		










## Temperature Active Sensors

Product Specification	Sensor Outputs	Product Specifics	Order Code	Sensor Accuracy	IP Class	Warranty
 <p>Room Wall Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 86x86x25mm	TRW1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP20	5-Year
 <p>Room Pendulum Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TRP1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5-Year
			L = 2m TRP1.BE			
 <p>Room Ceiling Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TRC1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP30	5-Year
			L = 2m TRC1.BE			
 <p>Pipe Surface Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TPS1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5-Year
			L = 2m TPS1.CE			
 <p>Universal Surface Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm	L = 1m TUS1.AE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5-Year
			L = 2m TUS1.BE			
 <p>Universal Cable Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm $\varnothing 6\text{mm} \times 50\text{mm}$	L = 1m TUU1.EE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5-Year
			L = 2m TUU1.FE			
 <p>Outdoor Wall Sensor AC/DC 24V</p>	0...10V 4...20mA	White housing 78x58x45.5mm $\varnothing 6\text{mm} \times 14\text{mm}$	TOW1.BE	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	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 <b>TDE1.AAa</b>	typ. $\pm 0.5^{\circ}\text{C}$ @ $21^{\circ}\text{C}$	IP65	5- Year
	0...10V		L = 6m <b>TDE1.BAa</b>	typ. $\pm 0.5^{\circ}\text{C}$ @ $21^{\circ}\text{C}$		
	4...20mA		L = 3m <b>TDE1.ADa</b>	typ. $\pm 0.5^{\circ}\text{C}$ @ $21^{\circ}\text{C}$		
	4...20mA		L = 6m <b>TDE1.BDa</b>	typ. $\pm 0.5^{\circ}\text{C}$ @ $21^{\circ}\text{C}$		
 Pipe Immersion Sensor AC/DC 24V	0...10V 4...20mA	White housing 65x50x45mm R1/2"	Ø4x50mm <b>TPI1.AE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5- Year
			Ø6x100mm <b>TPI1.GE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x150mm <b>TPI1.BE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x200mm <b>TPI1.CE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
 Duct Immersion Sensor AC/DC 24V	0...10V 4...20mA	White housing 65x50x45mm	Ø6x50mm <b>TDI1.AE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$	IP65	5- Year
			Ø6x100mm <b>TDI1.GE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x150mm <b>TDI1.BE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x200mm <b>TDI1.CE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x250mm <b>TDI1.FE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x300mm <b>TDI1.DE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		
			Ø6x450mm <b>TDI1.EE</b>	typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$		

## 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. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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	GRW1.MB	Air Quality (CO) ±5% Full Scale Temperature typ. ±2°C @ 20°C	IP30	5- Year
				400PPM	GRW1.NB			
			LCD	100PPPM	GRW1.OB			
				400PPM	GRW1.PB			
Duct Air Quality (CO) Sensor AC/DC 24V	0...10V 4...20mA	White housing 136x82x47mm	100PPM		GDI1.MB	Air Quality (CO) ±5% Full Scale	IP54	5- Year
			400PPM		GDI1.NB			
Room Air Quality (PM) Sensor AC/DC 24V	0...10V 4...20mA	White housing 115x83x30mm	non	2.5PM	GRW1.RB	Air Quality (PM) ±10% Full Scale	IP20	5- Year
				10PM	GRW1.TE			
			LCD	2.5PM	GRW1.SB			
				10PM	GRW1.UE			
Duct Air Quality (PM) Sensor AC/DC 24V	0...10V 4...20mA	White housing 110x75x32mm	PM2.5		GDI1.RE	Air Quality (PM) ±10% Full Scale	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		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		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		n/a	0...2m/s	n/a	PDI1.AA	<0.5m/s +5% of actual value	IP54	5- Year
						LCD			
			0...20m/s	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)	Wall Mounted White housing 85x85x25mm		MRW2.AA	Accuracy: ±5% full scale Detection Range: max. 8m	IP30	5- Year
	24V 1A	Flush Mounted White housing 55x55x8mm		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
 <p>Pipe Immersion Sensor AC/DC 24V</p>	BACNET MS/TP (RS485)	White housing 65x50x45mm R1/2"	Ø4x50mm <b>TPI9.AA</b>	typ. ±0.2°C @ 20°C	IP65	5- Year
			Ø6x100mm <b>TPI9.GA</b>	typ. ±0.2°C @ 20°C		
			Ø6x150mm <b>TPI9.BA</b>	typ. ±0.2°C @ 20°C		
			Ø6x200mm <b>TPI9.CA</b>	typ. ±0.2°C @ 20°C		
 <p>Duct Immersion Sensor AC/DC 24V</p>	BACNET MS/TP (RS485)	White housing 65x50x45mm	Ø6x50mm <b>TDI9.AA</b>	typ. ±0.2°C @ 20°C	IP65	5- Year
			Ø6x100mm <b>TDI9.GA</b>	typ. ±0.2°C @ 20°C		
			Ø6x150mm <b>TDI9.BA</b>	typ. ±0.2°C @ 20°C		
			Ø6x200mm <b>TDI9.CA</b>	typ. ±0.2°C @ 20°C		
			Ø6x250mm <b>TDI9.FA</b>	typ. ±0.2°C @ 20°C		
			Ø6x300mm <b>TDI9.DA</b>	typ. ±0.2°C @ 20°C		
			Ø6x450mm <b>TDI9.EA</b>	typ. ±0.2°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		<b>CRW9.AA</b>	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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	<b>CDI9.AA</b>	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L = 270mm	<b>CDI9.BA</b>			
Ceiling Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L = 1m	<b>CRC9.AA</b>	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ Rel. humidity typ. $\pm 1.8\%$ within 0...100% r.h.	IP30	5- Year
			L = 2m	<b>CRC9.BA</b>			
Pendulum Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L = 1m	<b>CRP9.AA</b>	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ Rel. humidity typ. $\pm 2.0\%$ within 0...100% r.h.	IP65	5- Year
			L = 2m	<b>CRP9.BA</b>			
Outdoor Humidity-Temperature Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 78x58x45.5mm	L = 50mm	<b>COW9.AA</b>	Temperature typ. $\pm 0.2^{\circ}\text{C}$ @ $20^{\circ}\text{C}$ 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 <sub>2</sub> ) Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 90x66x52mm	L = 150mm	<b>GDI9.AA</b>	Air Quality $\pm 50\text{ppm} + 3\%$ value	IP20	5- Year
Universal Air Quality (CO <sub>2</sub> ) Sensor AC/DC 24V	BACNET MS/TP (RS485)	White housing 90x66x52mm with 2 air inlets		<b>GUW9.AA</b>	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		<b>PDE9.AA</b>	3Pa + 1% of reading	IP65	5- Year



## MODBUS Temperature Sensors

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

## MODBUS Temperature Sensors

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

## Thermowells

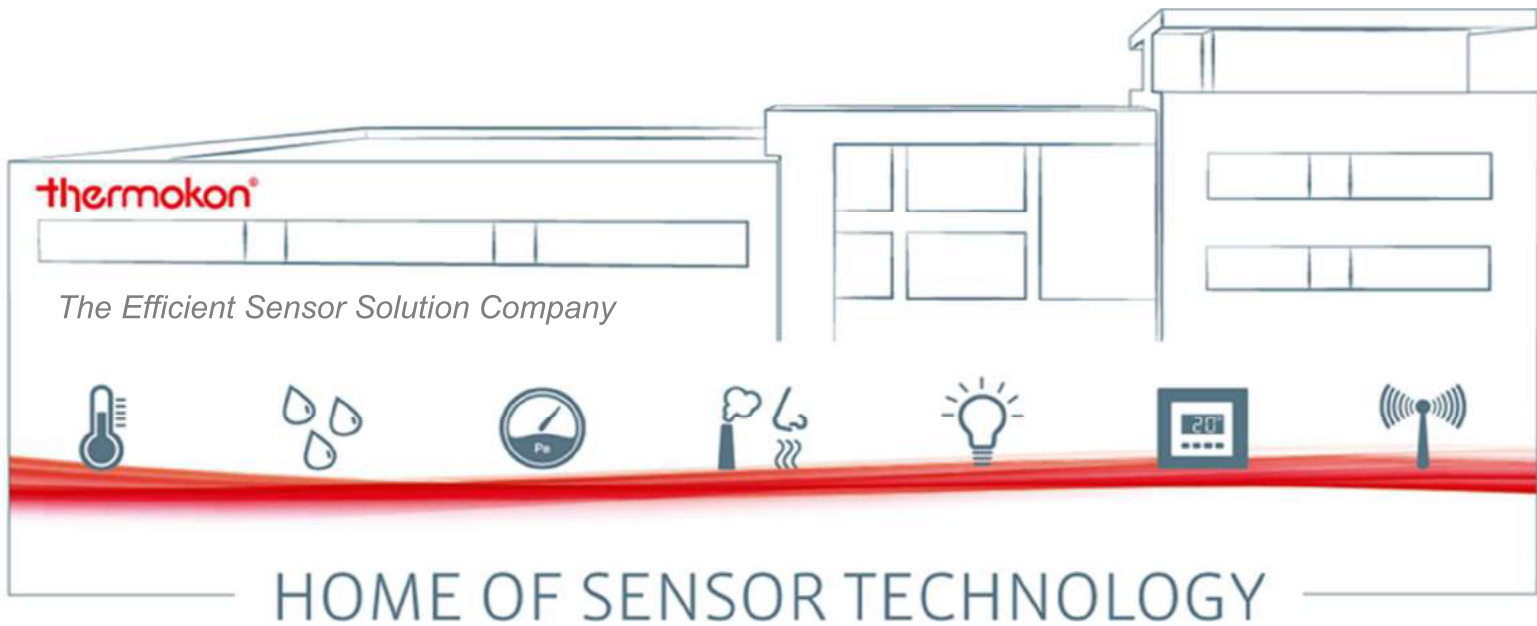


Product Name	Pipe-Connection	Dimensions	Product Specifics	Max Pressure Rating	Material	Max Flow
Thermowells	R1/2" "	Ø9x50mm	TPA0.Ga	40bar	SS304	28m/s
		Ø9x100mm	TPA0M.a			11m/s
		Ø9x150mm	TPA0.Ha			7m/s
		Ø9x200mm	TPA0.la			6m/s
		Ø9x250mm	TPA0.Ka			3m/s
		Ø9x300mm	TPA0.La			2m/s
		Ø9x400mm	TPA0.Na			1m/s

## Pilot Tubes



Product Name	Dimension	Product Specifics	Immersion length	Max Pressure Rating
Pilot Tubes	7.8x19x143mm	TDA0.P100	100mm	40bar
	7.8x19x243mm	TDA0.P200	200mm	
	7.8x19x343mm	TDA0.P300	300mm	
	7.8x19x443mm	TDA0.P400	400mm	
	7.8x19x543mm	TDA0.P500	500mm	
	7.8x19x643mm	TDA0.P600	600mm	
	7.8x19x743mm	TDA0.P700	700mm	
	7.8x19x843mm	TDA0.P800	800mm	
	7.8x19x943mm	TDA0.P900	900mm	
	7.8x19x1043mm	TDA0.P1000	1000mm	



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