

Temperature Sensors

Receivers




Transmitters




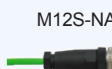
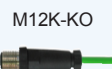

Software



Applications

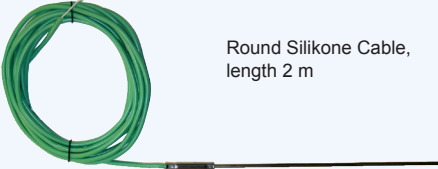
Temperature sensors





TRE Series for Pt100	PT100 sensor	Length	Ø	Type Code	Ø	Type Code
  M12S-KO Connector M12K-KO Connector  TWCP	Pt100 sensor with M12 male connector can be connected directly to transmitter MTR265 or using cable to MTR165 and MTR262	L=mm	mm		mm	
		100	3	TRE-100-3.0-A	6	TRE-100-6.0-A
		150	3	TRE-150-3.0-A	6	TRE-150-6.0-A
		250	3	TRE-250-3.0-A	6	TRE-250-6.0-A
		350	3	TRE-350-3.0-A	6	TRE-350-6.0-A
		500	3	TRE-500-3.0-A	6	TRE-500-6.0-A
		750	3	TRE-750-3.0-A	6	TRE-750-6.0-A
Removable M12 connector (optional)	Female connectors	M12K-NA	Angle type with screw terminals, 4 pole, IP67			
		M12S-NA	Straight type screw terminals, 4 pole, IP67			
Sensor element	Pt100, Class A ±0,15°C, optional Class B ±0,3°C, IEC 751					
Temperature range	Class A -30..+350°C, optional Class B -50..+500°C					
Sensor material	AISI 316					


TCSM Thermocouple Sensors	Sensor	Length mm	Ø mm	Type Code	Ø mm	Type Code	
  M12S-NA connector 	K thermocouple max. 1150°C	250	3.0	TCSM12-K-250-3.0	6.0	TCSM12-K-250-6.0	
	Sensor material Inconel, M12 connector	500	3.0	TCSM12-K-500-3.0	6.0	TCSM12-K-500-6.0	
		1000	3.0	TCSM12-K-1000-3.0	6.0	TCSM12-K-1000-6.0	
		1500	3.0	TCSM12-K-1500-3.0	6.0	TCSM12-K-1500-6.0	
	M12 Connectors for sensors and transmitters (MTR165/265)						
	M12 Connectors with screw terminals	M12K-NA			Angle type with screw terminals, 4 pole female, IP67		
		M12S-NA			Straight type with screw terminals, 4 pole female, IP67		
M12K-KO				Straight type with screw terminals, 4 pole male, IP67			
Extension Cables with M12	Extension cables with moulded M12 connector at the other end of cable						
	M12TC-K-5m			Extension cable, length 5 m, type K with moulded M12 connector			
  M12S-NA M12K-KO Connectors for extension cables		 TCSM-K K type extension Cable, length 5 m K type extension cable have to use between sensors and transmitters					


TWCP Protection tubes	Length	Ø	Type Code	Ø	Type Code	
 Compression fitting  L	mm	mm	G1/4"	mm	G1/2"	
	Thermowells with fixing compression fitting	50	3	TWCP-50-3-G1/4"	3	TWCP-50-3-G1/2"
		100	3	TWCP-100-3-G1/4"	3	TWCP-100-3-G1/2"
		150	3	TWCP-150-3-G1/4"	3	TWCP-150-3-G1/2"
	Thermowell diameter Ø 5 mm	200	3	TWCP-200-3-G1/4"	3	TWCP-200-3-G1/2"
		300	3	TWCP-300-3-G1/4"	3	TWCP-300-3-G1/2"
400		3	TWCP-400-3-G1/4"	3	TWCP-400-3-G1/2"	
Thermowells with fixing compression fitting	mm	Ø mm	G1/2"	Process connection G1/4" or G1/2". Material AISI 316. Max. pressure 100 bar (350°C). Thermowells will be delivered without sensors		
	Thermowell diameter Ø 9 mm	50	6			TWCP-50-6-G1/2"
		100	6			TWCP-100-6-G1/2"
		150	6			TWCP-150-6-G1/2"
	200	6	TWCP-200-6-G1/2"			
	300	6	TWCP-300-6-G1/2"			
400	6	TWCP-400-6-G1/2"				

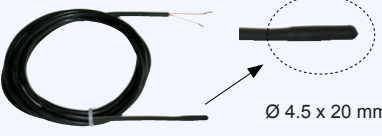
TCR Thermocouple with Silicone Cable	Sensor	Length mm	Ø mm	Type Code	Ø mm	Type Code	
 <p>Round Silicone Cable, length 2 m</p> <p>Bending angle 3 x sensor diameter</p>	Thermocouple K, max. 1100°C	50	1.0	TCR-K-50-1.0	1.5	TCR-K-50-1.5	
		100	1.0	TCR-K-100-1.0	1.5	TCR-K-100-1.5	
		150	1.0	TCR-K-150-1.0	1.5	TCR-K-150-1.5	
		250	1.0	TCR-K-250-1.0	1.5	TCR-K-250-1.5	
		500	1.0	TCR-K-500-1.0	1.5	TCR-K-500-1.5	
		1000	1.0	TCR-K-1000-1.0	1.5	TCR-K-1000-1.5	
	Material Inconel 600	Round Silicone cable, max. 180°C	50	3.0	TCR-K-50-3.0	6.0	TCR-K-50-6.0
			100	3.0	TCR-K-100-3.0	6.0	TCR-K-100-6.0
			150	3.0	TCR-K-150-3.0	6.0	TCR-K-150-6.0
			250	3.0	TCR-K-250-3.0	6.0	TCR-K-250-6.0
			500	3.0	TCR-K-500-3.0	6.0	TCR-K-500-6.0
			1000	3.0	TCR-K-1000-3.0	6.0	TCR-K-1000-6.0

TCT Thermocouple with TFT cable	Sensor	Length mm	Ø mm	Type Code	Ø mm	Type Code	
 <p>Flat Teflon Cable, length 2 m</p> <p>Bending angle 3 x sensor diameter</p>	Thermocouple K, max. 1100°C	50	1.0	TCT-K-50-1.0	1.5	TCT-K-50-1.5	
		100	1.0	TCT-K-100-1.0	1.5	TCT-K-100-1.5	
		150	1.0	TCT-K-150-1.0	1.5	TCT-K-150-1.5	
		250	1.0	TCT-K-250-1.0	1.5	TCT-K-250-1.5	
		500	1.0	TCT-K-500-1.0	1.5	TCT-K-500-1.5	
		1000	1.0	TCT-K-1000-1.0	1.5	TCT-K-1000-1.5	
	Material Inconel 600	Flat Teflon cable, max. 250°C	50	3.0	TCT-K-50-3.0	6.0	TCT-K-50-6.0
			100	3.0	TCT-K-100-3.0	6.0	TCT-K-100-6.0
			150	3.0	TCT-K-150-3.0	6.0	TCT-K-150-6.0
			250	3.0	TCT-K-250-3.0	6.0	TCT-K-250-6.0
			500	3.0	TCT-K-500-3.0	6.0	TCT-K-500-6.0
			1000	3.0	TCT-K-1000-3.0	6.0	TCT-K-1000-6.0

TREP Pt100 sensor (Ø 3 mm)	Type Code	Length	Ø mm
 <p>Pt100 sensor with 2 wire cable</p> <p>Bending angle 3 x sensor diameter</p>	TREP-100-3.0-3m	100 mm	3.0
	TREP-150-3.0-3m	150 mm	3.0
	TREP-250-3.0-3m	250 mm	3.0
Sensor	Pt100, Class B ±0.3°C, sensor material AISI 316		
Temperature range	-50..+500°C		
Cable	Silicone, 2 wire cable, max. temperature 120 °C		

TLC Pt100 sensor (Ø 6 mm)	Type Code	Sensor	Length	Ø mm	
 <p>Pt100 sensor -50..+180°C (2 wire connector)</p>	TLC-100-50-6.0-2m	Pt100	50 mm	6.0	
	TLC-1000-50-6.0-2m	Pt1000			
	Sensor	Pt100, Class B ±0.3°C, material AISI 316			
	Temperature range	-50..+180°C			
Cable	Silicone, 2 wire cable, max. temperature +180°C				

IKES Pt100 sensor (Ø 6 mm)	Type Code	Length	Ø mm	Cable
 <p>Pt100 with double isolation, rubber isolation + thin steel protection tube</p>	IKES-50-6.0-2m/2	50 mm	6.0	Length 2 m, 2 wire
	IKES-50-6.0-2m/4			Length 2 m, 4 wire
	IKES-50-6.0-5m/4			Length 5 m, 4 wire.
	IKES-100-6.0-2m/2	100 mm	6.0	Length 2 m, 2 wire
	IKES-100-6.0-5m/4			Length 5 m, 4 wire
	Sensor	Pt100, Class B ±0.3°C, optional Class A		
Temperature range	-50..+105°C			
Protection tube	AISI 316, Ø 6 mm, thin protection tube			

IKE Pt100 rubber sensor	Type Code	Cable /wires
 <p>Ø 4.5 x 20 mm</p>	IKE-20-2m/2	Length 2 m, 2 wire
	IKE-20-2m/4	Length 2 m, 4 wire
	IKE-20-5m/4	Length 5 m, 4 wire.
	Molten rubber sensor Pt100, Class B ±0.3°C, protection IP68 -50..+105°C (sensor + cable), tip size Ø 4.5 x 20 mm Suitable for applications in where metal surface may be a problem	