

# HEATING/COOLING WATER SENSORS

TEAT temperature sensors are designed for measuring heating and cooling water temperatures in HVAC automation systems. The sensors can also be used for air temperature measurements from ventilation ducts, for example.

°C

mounting	water applications: with Proidual pocket (R½")
	air applications: with MT4270 flange
range	-50...+120 °C
time constant	5 s
housing	IP54, stem or cable gland downwards
cable gland	M16
materials	PBT, PC, PA, acid proof steel
mounting depth	80 mm
	50, 100, 150, 200, 250, 300, 350 and 450 mm mounting depths also available. To order these sensors, add the depth to the product type (e.g. TEAT PT 100-300)



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TYPE	ART NO.	
TEAT PT 100	1173070	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEAT PT 1000	1174070	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEAT NTC 1.8	117E070	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEAT NTC 2.2	1172070	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEAT NTC 10	1175070	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEAT NTC 10-KB	117B070	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEAT NTC 10-AN	117H070	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEAT NTC 10-C	117M070	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEAT NTC 20	1176070	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEAT NI 1000-LG	1178070	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEAT NI 1000	117C070	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEAT KP 10	117J070	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEAT T1	117V070	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
TEAT LL	1177070	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEAT LU	1179070	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEAT-M	117Z070	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	1170250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool
MT4270	MT4270	duct flange (6 mm)

## POCKETS

Pocket material	TEAT mounting depth								
	50	80	100	150	200	250	300	350	450
<b>Stainless steel</b> AISI 300	AT 50 1170011	AT 80 1170010							
<b>Brass</b> MS 362	ATM 50 1170031	ATM 80 1170030	ATM 100 1170037	ATM 150 1170032	ATM 200 1170033	ATM 250 1170034	ATM 300 1170038	ATM 350 1170035	ATM 450 1170036
<b>Acid proof steel</b> AISI 316L		ATH 80 1170020	ATH 100 1170027	ATH 150 1170022	ATH 200 1170023	ATH 250 1170024	ATH 300 1170021	ATH 350 1170025	ATH 450 1170026
<b>Seawater resistant steel</b> AISI 316Ti		ATS 80 1170001							

# HOT DOMESTIC WATER SENSORS

TENA sensors are designed for detecting hot domestic water temperatures with fast response.

°C

mounting	R ½"
range	-50...+120 °C
time constant	2,5 s
housing	IP54, stem or cable gland downwards
cable gland	M16
pressure rating	PN16
materials	PBT, PC, PA, stainless steel
mounting depth	80 mm
	50 and 210 mm mounting depths also available.
	To order these sensors, add the depth
	to the product type (e.g. TENA PT 100-210).



TYPE	ART NO.	
TENA PT 100	1173050	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TENA PT 1000	1174050	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TENA NTC 1.8	117E050	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TENA NTC 2.2	1172050	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TENA NTC 10	1175050	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TENA NTC 10-KB	117B050	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TENA NTC 10-AN	117H050	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TENA NTC 10-C	117M050	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TENA NTC 20	1176050	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TENA NI 1000-LG	1178050	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TENA NI 1000	117C050	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TENA T1	117V050	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
TENA LL	1177050	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TENA LU	1179050	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TENA-M	117Z050	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	1170250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

# FROST GUARD SENSORS

TEKV sensors are designed for frost protection and for applications with fast response.

°C

mounting	R ¼"
range	-50...+120 °C
time constant	2,5 s
housing	IP54, stem or cable gland downwards
cable gland	M16
materials	PBT, PC, PA, acid proof steel
pipe connector	brass
mounting depth	< 200 mm (also available < 400 mm)



TYPE	ART NO.	
TEKV PT 100	1173120	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEKV PT 1000	1174120	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEKV NTC 1.8	117E120	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEKV NTC 2.2	1172120	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEKV NTC 10	1175120	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEKV NTC 10-KB	117B120	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEKV NTC 10-AN	117H120	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEKV NTC 10-C	117M120	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEKV NTC 20	1176120	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEKV NI 1000-LG	1178120	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEKV NI 1000	117C120	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEKV LL	1177120	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEKV LU	1179120	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEKV-M	117Z120	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	1170250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

# FROST GUARD SENSORS

TEV sensors are designed for frost protection and for applications with fast response.

°C

mounting	R ¼"
range	-50...+120 °C
time constant	2,5 s
cable	2 m LIYY 2 x 0,14
materials	acid proof steel
pipe connector	brass
pressure rating	PN16
mounting depth	< 200 mm (also available < 400 mm)



TYPE	ART NO.	
TEV PT 100	1173020	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEV PT 1000	1174020	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEV NTC 1.8	117E020	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEV NTC 2.2	1172020	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEV NTC 10	1175020	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEV NTC 10-KB	117B020	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEV NTC 10-AN	117H020	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEV NTC 10-C	117M020	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEV NTC 20	1176020	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEV NI 1000-LG	1178020	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEV NI 1000	117C020	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEV LL	1177020	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEV LU	1179020	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEU-N	1170131	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

## STRAP-ON SENSORS

TEP sensors are designed for pipe strap-on installations in heating and cooling applications.

°C

mounting	by a band on the pipe (diam. < 90 mm)
range	-50...+120 °C
time constant	approx. 5 s
housing	IP54, stem or cable gland downwards
cable gland	M16
materials	PBT, PC, PA, zink casting



TYPE	ART NO.	
TEP PT 100	1173080	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEP PT 1000	1174080	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEP NTC 1.8	117E080	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEP NTC 2.2	1172080	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEP NTC 10	1175080	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEP NTC 10-KB	117B080	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEP NTC 10-AN	117H080	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEP NTC 10-C	117M080	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEP NTC 20	1176080	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEP NI 1000-LG	1178080	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEP NI 1000	117C080	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEP KP 10	117J080	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEP T1	117V080	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
TEP LL	1177080	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEP LU	1179080	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEP-M	117Z080	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	1170250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

## STRAP-ON SENSORS

TEPK sensors are designed for pipe strap-on installations in heating and cooling applications.

°C

mounting	by a band on the pipe (Ø10...100 mm)
range	-20...+80 °C
time constant	about 5 s
probe	zinc casting
cable	2 m (LIYY 2 x 0,14), PVC
band	plastic



TYPE	ART NO.	
TEPK PT 100	1173240	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEPK PT 1000	1174240	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEPK NTC 1.8	117E240	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEPK NTC 2.2	1172240	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEPK NTC 10	1175240	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEPK NTC 10-KB	117B240	5025 kΩ / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEPK NTC 10-AN	117H240	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEPK NTC 10-C	117M240	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEPK NTC 20	1176240	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEPK NI 1000-LG	1178240	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEPK NI 1000	117C240	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEPK T1	117V240	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
TEPK LL	1177240	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEPK LU	1179240	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEU-N	1170131	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

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## DUCT SENSORS

TEKHA sensors are designed for detecting temperatures inside small ventilation ducts.

°C

mounting	with flange, adjustable < 90 mm
range	-50...+70 °C
stem	Ø6 mm x 100 mm, acid proof steel
cable	2 m (LIYY 2 x 0,14) PVC cable
	other lengths to order



TYPE	ART NO.	
TEKHA PT 100	1173290	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEKHA PT 1000	1174290	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEKHA NTC 1.8	117E290	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEKHA NTC 2.2	1172290	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEKHA NTC 10	1175290	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEKHA NTC 10-AN	117H290	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEKHA NTC 10-C	117M290	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEKHA NTC 20	1176290	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEKHA NI 1000-LG	1178290	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEKHA NI 1000	117C290	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEKHA KP 10	117J290	LM335Z, 10 mV/K, 2,98 V / 25 °C

# DUCT SENSORS

TEK sensors are designed for detecting temperatures inside ventilation ducts.

°C

mounting	with flange, adjustable < 200 mm
range	-50...+70 °C
housing	IP54, stem or cable downwards
cable gland	M16
materials	PBT, PC, PA, stainless steel



TYPE	ART NO.	
TEK PT 100	1173040	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEK PT 1000	1174040	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEK NTC 1.8	117E040	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEK NTC 2.2	1172040	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEK NTC 10	1175040	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEK NTC 10-KB	117B040	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEK NTC 10-AN	117H040	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEK NTC 10-C	117M040	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEK NTC 20	1176040	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEK NI 1000-LG	1178040	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEK NI 1000	117C040	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEK KP 10	117J040	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEK T1	117V040	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
TEK LL	1177040	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEK LU	1179040	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEK-M	117Z040	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	117O250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

## DUCT SENSORS

TEKA sensors are designed for detecting temperatures inside large ducts. Sensor's mechanical construction ensures accurate average temperature measurement.

°C

mounting	with flange and springs
range	-50...+70 °C
length	3 m
housing	IP54, stem or cable downwards
cable gland	M16
materials	PBT, PC, PA, stainless steel



### TYPE

### ART NO.

<b>TEKA PT 100</b>	1173130	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
<b>TEKA PT 1000</b>	1174130	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
<b>TEKA NTC 1.8</b>	117E130	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
<b>TEKA NTC 2.2</b>	1172130	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
<b>TEKA NTC 10</b>	1175130	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
<b>TEKA NTC 10-KB</b>	117B130	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
<b>TEKA NTC 10-AN</b>	117H130	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
<b>TEKA NTC 10-C</b>	117M130	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
<b>TEKA NTC 20</b>	1176130	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
<b>TEKA NI 1000-LG</b>	1178130	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
<b>TEKA NI 1000</b>	117C130	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
<b>TEKA LL</b>	1177130	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
<b>TEKA LU</b>	1179130	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
<b>TEKA-M</b>	117Z130	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
<b>TE-N V2</b>	1170250	display option for the transmitters
<b>ML-SER</b>	1139010	transmitter commissioning tool



## DUCT SENSORS

TEKA-500 sensors are designed for detecting temperatures inside ventilation ducts. Sensor detects the average temperature with 4 sensor elements.

°C

mounting	with flange
range	-50...+70 °C
stem length	500 mm
housing	IP54, stem or cable downwards
cable gland	M16
materials	PBT, PC, PA, stainless steel



TYPE	ART NO.	
TEKA PT 100-500	1173170	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEKA PT 1000-500	1174170	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEKA NTC 1.8-500	117E170	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEKA NTC 2.2-500	1172170	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEKA NTC 10-500	1175170	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEKA NTC 10-KB-500	117B170	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEKA NTC 10-AN-500	117H170	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEKA NTC 10-C-500	117M170	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEKA NTC 20-500	1176170	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEKA NI 1000-LG-500	1178170	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEKA NI 1000-500	117C170	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEKA LL-500	1177170	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEKA LU-500	1179170	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEKA-M-500	117Z170	Modbus transmitter/controller, supply 24 Vac/dc, accuracy ±0,5 °C
TE-N V2	1170250	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

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## COMBUSTION GAS SENSORS

TESK sensors are designed for detecting combustion gas temperatures.

°C

mounting	R ½" or with flange on order
range	0...+400 °C
housing	silumin cast, IP54, stem or cable gland downwards
cable gland	PG16
pressure rating	PN16



TYPE	ART NO.	
TESK PT 100	1173160	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TESK PT 1000	1174160	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TESK LL 0/400	1177160	2-wire transmitter, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TESK LU 0/400	1179160	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C

## CABLE TEMPERATURE SENSORS

TEKY4 temperature sensors are designed for detecting temperatures in automatic HVAC systems. The rolled stainless steel sleeve provides good protection against water and dust.

°C

range	-30...+80 °C
cable	Ø 3.2 mm x 2.3 m, PVC
	other lengths also available
sleeve	Ø 4 mm x 30 mm, stainless steel
protection class	IP67



### TYPE ART NO.

<b>TEKY4 PT 100</b>	1173330	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
<b>TEKY4 PT 1000</b>	1174330	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
<b>TEKY4 NTC 1.8</b>	117E330	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
<b>TEKY4 NTC 2.2</b>	1172330	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
<b>TEKY4 NTC 10</b>	1175330	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
<b>TEKY4 NTC 10-KB</b>	117B330	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
<b>TEKY4 NTC 10-AN</b>	117H330	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
<b>TEKY4 NTC 10-C</b>	117M330	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
<b>TEKY4 NTC 20</b>	1176330	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
<b>TEKY4 NI 1000-LG</b>	1178330	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
<b>TEKY4 NI 1000</b>	117C330	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
<b>TEKY4 T1</b>	117V330	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
<b>TEKY4 LL</b>	1177330	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
<b>TEKY4 LU</b>	1179330	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
<b>TEU-N</b>	1170131	display option for the transmitters
<b>ML-SER</b>	1139010	transmitter commissioning tool

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## CABLE TEMPERATURE SENSORS

TEKY6S temperature sensors are designed for detecting temperatures in automatic HVAC systems. The rolled stainless steel sleeve provides good protection against water and dust.

°C

range	-50...+150 °C
cable	Ø 5 mm x *2.3 m, silicone
sleeve	Ø 6 mm x 45 mm, stainless steel
protection class	IP67
	* other lengths also available



### TYPE ART NO.

<b>TEKY6S PT 100</b>	1173340	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
<b>TEKY6S PT 1000</b>	1174340	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
<b>TEKY6S NTC 10</b>	1175340	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
<b>TEKY6S NI 1000-LG</b>	1178340	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
<b>TEKY6S NI 1000</b>	117C340	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
<b>TEKY6S LL</b>	1177340	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
<b>TEKY6S LU</b>	1179340	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
<b>TEU-N</b>	1170131	display option for the transmitters
<b>ML-SER</b>	1139010	transmitter commissioning tool

## CABLE TEMPERATURE SENSORS

TEKY6 temperature sensors are designed for detecting temperatures in automatic HVAC systems. The rolled stainless steel sleeve provides good protection against water and dust.

°C

range	-30...+80 °C
cable	Ø 5 mm x *2.3 m, PVC
sleeve	Ø 6 mm x 45 mm, stainless steel
protection class	IP67
	* other lengths also available



TYPE	ART NO.	
TEKY6 PT 100	1173320	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEKY6 PT 1000	1174320	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEKY6 NTC 1.8	117E320	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEKY6 NTC 2.2	1172320	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEKY6 NTC 10	1175320	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEKY6 NTC 10-KB	117B320	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEKY6 NTC 10-AN	117H320	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEKY6 NTC 10-C	117M320	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEKY6 NTC 20	1176320	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEKY6 NI 1000-LG	1178320	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEKY6 NI 1000	117C320	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEKY6 KP 10	117J320	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEKY6 LL	1177320	2-wire transmitter/controller, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEKY6 LU	1179320	3-wire transmitter/controller, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEU-N	1170131	display option for the transmitters
ML-SER	1139010	transmitter commissioning tool

## CABLE TEMPERATURE SENSORS, FLOOR

TEL sensors are designed for detecting floor temperatures. The sensor is installed in the cable duct inside the floor construction.

°C

range	-30...+80 °C
cable	3 m (LIYY 2 x 0,5) PVC cable
	other lengths also available
sleeve	Ø 7 mm



TYPE	ART NO.	
TEL PT 100	1173280	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEL PT 1000	1174280	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEL NTC 1.8	117E280	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEL NTC 2.2	1172280	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEL NTC 10	1175280	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEL NTC 10-AN	117H280	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEL NTC 10-C	117M280	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEL NTC 20	1176280	0 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEL NI 1000-LG	1178280	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEL NI 1000	117C280	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEL KP 10	117J280	LM335Z, 10 mV/K, 2,98 V / 25 °C

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## CABLE TEMPERATURE SENSORS, SOIL INSTALLATION

TEM sensors are designed for detecting temperatures in road ramps and street constructions. The sensor must be installed in a cable duct.

°C

range	-30...+80 °C
cable	5 m (PUR 2 x 0,75)
	other lengths also available
sleeve	Ø 9 mm



TYPE	ART NO.	
TEM PT 100	1173310	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEM PT 1000	1174310	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEM NTC 1.8	117E310	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEM NTC 2.2	1172310	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEM NTC 10	1175310	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEM NTC 10-AN	117H310	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEM NTC 10-C	117M310	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEM NTC 20	1176310	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEM NI 1000-LG	1178310	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEM NI 1000	117C310	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEM KP 10	117J310	LM335Z, 10 mV/K, 2,98 V / 25 °C

# ROOM TEMPERATURE SENSORS

TEHR sensors are designed for detecting room temperatures.

°C

mounting	with screws on wall or on a junction box (hole distance 60 mm)
range	0...+50 °C
housing	IP20, ABS plastic
options	push button, 5-position switch, indicator light, display



TYPE	ART NO.	
TEHR PT 100	1173190	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEHR PT 1000	1174190	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEHR NTC 1.8	117E190	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEHR NTC 2.2	1172190	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEHR NTC 10	1175190	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEHR NTC 10-KB	117B190	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEHR NTC 10-AN	117H190	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEHR NTC 10-C	117M190	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEHR NTC 20	1176190	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEHR NI 1000-LG	1178190	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEHR NI 1000	117C190	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEHR KP 10	117J190	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEHR T1	117V190	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C
<b>OPTIONS</b>		
TEHR-S	1170080	push button (no / nc) 24 Vac/dc
TEHR-K5	1170240	5-position rotary switch (1, 2 ,3, 0, A) 24 Vac/dc
TEHR-L	1170100	LED 24 V
TEHR-N V2	1170260	digital display, input 0...10 V = 0...50 °C

## ROOM TEMPERATURE SENSORS

TEHR-P sensors are designed for detecting room temperatures and adjusting the temperature set point.

°C + set point adjustment

mounting	with screws on wall or on a junction box (hole distance 60 mm)
range	0...+50 °C
potentiometer	to order
resistors	to order
housing	IP20, ABS plastic
options	push button, 5-position switch, indicator light, display



TYPE	ART NO.	
TEHR PT 100-P	1173230	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEHR PT 1000-P	1174230	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEHR NTC 1.8-P	117E230	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEHR NTC 2.2-P	1172230	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEHR NTC 10-P	1175230	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEHR NTC 10-AN-P	117H230	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEHR NTC 10-C-P	117M230	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEHR NTC 20-P	1176230	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEHR NI 1000-LG-P	1178230	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEHR NI 1000-P	117C230	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEHR KP 10-P	117J230	LM335Z, 10 mV/K, 2,98 V / 25 °C
<b>OPTIONS</b>		
TEHR-S	1170080	push button (no / nc) 24 Vac/dc
TEHR-K5	1170240	5-position rotary switch (1, 2, 3, 0, A) 24 Vac/dc
TEHR-L	1170100	LED 24 V
TEHR-N V2	1170260	digital display, input 0...10 V = 0...50 °C

# ROOM TEMPERATURE TRANSMITTERS

TEHR LL (2-wire, 4...20 mA) and TEHR LU (3-wire, 0...10 V) are temperature transmitters for dry room spaces. The output range is selectable. TEHR-M output is available via Modbus and as a 0...10 V signal.

°C

mounting	with screws on wall or on a junction box (hole distance 60 mm)
range	0...+50 °C
sensor	Pt1000 EN 60751/B
accuracy	±0,5 °C / 0 °C
potentiometer	to order
housing	IP20, ABS plastic



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TYPE	ART NO.	
TEHR LL	1177190	2-wire transmitter, supply 22...35 Vdc, output 4...20 mA
TEHR LL-N	1177191	with display
TEHR LU	1179190	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA
TEHR LU-N	1179191	with display
TEHR LU-PU	1179350	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA, 0...10 V potentiometer
TEHR LU-PU-N	1179351	with display, 0...10 V potentiometer
TEHR-M	117Z190	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA, Modbus
TEHR-M-N	117Z191	with display, Modbus
TEHR-M-PU	117Z350	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA, Modbus, 0...10 V potentiometer
ML-SER	1139010	transmitter commissioning tool

## OPTIONS

TEHR-P	1170120	passive potentiometer (not available for M models)
TEHR-K5	1170240	5-position rotary switch (1, 2, 3, 0, A) 24 Vac/dc
TEHR-K5R	1170241	5-position rotary switch with resistance output
TEHR-N V2	1170260	display

## ROOM TEMPERATURE SENSORS

TEHU sensors are designed for detecting room temperatures. Flush mounting.

°C

mounting	on a junction box
range	0...+50 °C
housing	IP20, ABS plastic



TYPE	ART NO.	
TEHU PT 100	1173150	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C EN 60751/B
TEHU PT 1000	1174150	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEHU NTC 1.8	117E150	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEHU NTC 2.2	1172150	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEHU NTC 10	1175150	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEHU NTC 10-KB	117B150	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEHU NTC 10-AN	117H150	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEHU NTC 10-C	117M150	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEHU NTC 20	176150	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEHU NI 1000-LG	1178150	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEHU NI 1000	117C150	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEHU KP 10	117J150	LM335Z, 10 mV/K, 2,98 V / 25 °C

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## OUTDOOR TEMPERATURE SENSORS

TEU sensors are designed for detecting outdoor temperatures.

°C

mounting	with screws on wall, external lugs
range	-50...+50 °C
housing	IP54, cable gland downwards
cable gland	M16
materials	PBT, PC, PA



TYPE	ART NO.	
TEU PT 100	1173090	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TEU PT 1000	1174090	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TEU NTC 1.8	117E090	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TEU NTC 2.2	1172090	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TEU NTC 10	1175090	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TEU NTC 10-KB	117B090	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TEU NTC 10-AN	117H090	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TEU NTC 10-C	117M090	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TEU NTC 20	1176090	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TEU NI 1000-LG	1178090	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TEU NI 1000	117C090	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TEU KP 10	117J090	LM335Z, 10 mV/K, 2,98 V / 25 °C
TEU T1	117V090	2226 Ω / 0 °C, accuracy ±0,4 °C / 0 °C



## OUTDOOR TEMPERATURE TRANSMITTERS

TEU transmitters are designed for detecting outdoor temperatures.

°C

mounting	with screws on wall, external lugs
ranges	-50...+50, -50...+150, 0...+50, 0...+100 °C
housing	IP54, cable gland downwards
cable gland	M16
materials	PBT, PC, PA



TYPE	ART NO.	
TEU LL	1177090	2-wire transmitter, supply 22...35 Vdc, output 4...20 mA, accuracy ±0,5 °C
TEU LU	1179090	3-wire transmitter, supply 24 Vac/dc, output 0...10 V < 2 mA, accuracy ±0,5 °C
TEU-N	1170131	display option for TEU LL and TEU LU transmitters
ML-SER	1139010	transmitter commissioning tool

## INDUSTRIAL TEMPERATURE SENSORS

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TES sensors are designed for detecting temperatures in dusty, hot and wet (industrial) spaces.

IP67, °C

mounting	with screws on wall
range	-50...+120 °C
housing	silumin cast IP67, cable gland downwards
cable gland	PG11



TYPE	ART NO.	
TES PT 100	1173100	100 Ω / 0 °C, accuracy ±0,3 °C / 0 °C, EN 60751/B
TES PT 1000	1174100	1000 Ω / 0 °C, accuracy ±0,3 °C / 0 °C (Honeywell, Danfoss equivalent)
TES NTC 1.8	117E100	1800 Ω / 25 °C, accuracy ±0,3 °C / 25 °C (TAC equivalent)
TES NTC 2.2	1172100	2252 Ω / 25 °C, accuracy ±0,25 °C / 25 °C (Johnson equivalent)
TES NTC 10	1175100	10 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Trend equivalent)
TES NTC 10-KB	117B100	5025 Ω / 25 °C, accuracy ±0,5 °C / 25 °C (Satchwell equivalent)
TES NTC 10-AN	117H100	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Andover equivalent)
TES NTC 10-C	117M100	10 kΩ / 25 °C, accuracy ±0,25 °C / 25 °C (Carel equivalent)
TES NTC 20	1176100	20 kΩ / 25 °C, accuracy ±0,2 °C / 25 °C (Honeywell equivalent)
TES NI 1000-LG	1178100	1000 Ω / 0 °C, accuracy ±0,5 °C / 0 °C (Siemens equivalent)
TES NI 1000	117C100	1000 Ω / 0 °C, accuracy ±0,4 °C / 0 °C (Sauter equivalent)
TES KP 10	117J100	LM335Z, 10 mV/K, 2,98 V / 25 °C

## TEMPERATURE TRANSMITTERS

LLK V2 and LUK V2 are transmitters for temperature measuring. LLK V2 is a 2-wire transmitter converting the sensor resistance to the 4...20 mA signal. LUK V2 is a 3-wire transmitter converting the sensor signal to the 0...10 V signal. The transmitter needs a separate Pt1000 sensor.

°C

LLK V2: supply	22...35 Vdc
output	4...20 mA
LUK V2: supply	24 Vac/dc < 1 VA
output	0...10 Vdc < 2mA
ranges	-50...+50, -50...+150, 0...+50, 0...+100 °C
housing	IP54
dimensions	115 x 115 x 45 mm



TYPE	ART NO.	
LLK V2	1182230	2-wire transmitter
LLK-N V2	1182231	2-wire transmitter with display
LUK V2	1182240	3-wire transmitter
LUK-N V2	1182241	3-wire transmitter with display
ML-SER	1139010	transmitter commissioning tool

## TEMPERATURE SENSOR SIMULATOR

TESIM sensor simulators are designed for simulating temperature sensor when testing a control system.

ranges	5 selectable temperature values
cable	with banana jacks
accuracy, Pt1000	±0,15°C / 0 °C
accuracy, NTC 10	±0,25°C / 25 °C
housing	IP54



TYPE	ART NO.	
TESIM PT 1000	1170220	Pt1000 simulator
TESIM NTC 10	1170230	NTC 10 simulator

## PROTECTIVE CASING FOR ROOM SENSOR

KO IVS is a protective casing for room sensors in spaces like sports halls. Casing is transparent and with a lock.



TYPE	ART NO.	
KO IVS	KO5239	protective casing for room sensors