

# Temperature sensors - NTC

## Clamp-on sensor



Clamp-on sensor for measuring surface temperature. Please note that this sensor cannot be used together with the Pulser series.

Supplied with 1,5 m cable including clamp (Ø 40 mm max.)

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Time constant	13 s
Material	Aluminium
Length of cable	1.5 m
Protection class	IP65

Description	Temperature range	Type	Notes
Clamp-on sensor, clamp included	0...30°C	TG-A130	

Accessories	Type	Notes
Heat conductive paste in tube, 1 g	PASTA	
Heat conductive paste in tube, 20 g	PASTA-20	

## Bulb sensor



Universal sensor.

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Diameter	Ø 6 mm
Material	Nickel plated brass
Length of cable	1.5 m
Protection class	IP65

Description	Temperature range	Length of cable	Type	Notes
Bulb sensor	0...30°C	1.5 m	TG-B130	
Bulb sensor	20...50°C	1.5 m	TG-B150	
Bulb sensor	0...60°C	1.5 m	TG-B160	
Bulb sensor	40...70°C	1.5 m	TG-B170	
Bulb sensor	60...90°C	1.5 m	TG-B190	

Accessories	Type	Notes
Heat conductive paste in tube, 1 g	PASTA	
Heat conductive paste in tube, 20 g	PASTA-20	

## Floor sensor

For measuring floor temperature.



Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Diameter	Ø 7 mm
Length of cable	2.5 m
Protection class	IP65

Description	Temperature range	Length of cable	Type	Notes
Floor sensor	0...30°C	2.5 m	TG-G130	
Floor sensor for the Flo-origo thermostat range	0...40°C	2.5 m	TG-G240	

## Immersion sensor

For measuring water temperature.



Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Time constant	4 s
Connection Diameter	R1/4" Ø 6 mm
Material	Stainless steel
Pressure class	PN10
Insertion length	135 mm, (TG-D230, 220 mm)
Length of cable	1.5 m
Protection class	IP65

Description	Temperature range	Type	Notes
Immersion sensor	0...30°C	TG-D130	
Immersion sensor	20...50°C	TG-D150	
Immersion sensor	40...70°C	TG-D170	
Immersion sensor	60...90°C	TG-D190	
Immersion sensor	0...30°C	TG-D230	

Accessories	Type	Notes
Mounting flange for TG-D1... for mounting in ventilation duct DF	DF	



NB: Cannot be used together with the PULSER series.

## Well



Well for immersion sensors.

Technical data	
Connection	R1/2"
Pressure class	PN25

Description	Material	Insertion length	Other	Type	Notes
Well	Brass	90 mm		DR-90	
Well	Stainless steel	90 mm		DR-90R	
Well	Stainless steel	90 mm	for TG-DHW...	DR-90W	
Well	Brass	135 mm		DR-135	
Well	Stainless steel	135 mm		DR-135R	

Accessories	Type	Notes
Adapter 1/4" to 1/2". For mounting TG-D1... in 1/2" in	ADAPTER	

## Duct sensor



Duct sensor for measuring air temperature in ventilation ducts.

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Time constant	38 s
Diameter	Ø 9 mm
Insertion length	15...130 mm, adjustable
Length of cable	1.5 m
Protection class	IP20

Description	Temperature range	Type	Notes
Duct sensor	-30...+30°C	TG-K300	
Duct sensor	-20...+10°C	TG-K310	
Duct sensor	0...30°C	TG-K330	
Duct sensor	20...50°C	TG-K350	
Duct sensor	0...60°C	TG-K360	
Duct sensor	40...70°C	TG-K370	
Duct sensor for Floorigo/AL24A1T	0...40°C	TG-K340	

## Room sensor with setpoint adjustment



Room sensor for measuring room temperature. TG-R430 can also be used for setpoint adjustment only.

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Protection class	IP30

Description	Temperature range	Type	Notes
Room sensor with setpoint adjustment	0...30°C	TG-R430	

## Room sensor



For measuring room temperature.

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Protection class	IP30

Description	Temperature range	Type	Notes
Room sensor	0...30°C	TG-R530	
Room sensor	20...50°C	TG-R550	
Room sensor for average measurements*	0...30°C	TG-R530M	
Room sensor for Floorigo/AL24A1T	0...40°C	TG-R540	

\* For measuring average room temperature. Two TG-R530M are connected in series to the sensor input.

## Outdoor sensor



Outdoor sensor for measuring outdoor temperature, or temperature in rooms when higher protection class is needed.

Technical data	
Sensor element	NTC, 15 kΩ...10 kΩ
Protection class	IP65

Description	Temperature range	Type	Notes
Outdoor sensor	-30...+30°C	TG-R600	
Outdoor sensor	0...30°C	TG-R630	
Outdoor sensor	20...50°C	TG-R650	

## Setpoint device



Setpoint device intended for NTC sensors only. Panel-mounting.

Technical data	
Protection class	IP20

Description	Temperature range	Type	Notes
Setpoint device	-20...+10°C	TBI-10	
Setpoint device	-15...+15°C	TBI-15	
Setpoint device	0...30°C	TBI-30	
Setpoint device	20...50°C	TBI-50	
Setpoint device	40...70°C	TBI-70	
Setpoint device	60...90°C	TBI-90	
Setpoint device	0...100%	TBI-100	