

Temperature sensor

Clamp-on

AT 7780

Dimension range 4-57 mm	PN -	Temperature range -40°C to +150°C	Material Stainless steel /Plastic
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Range of application

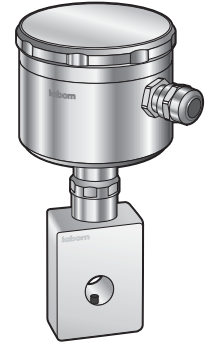
For measuring the surface temperature of pipes and control of processes. Used eg Of the life and pharmaceutical industry where there are greater hygiene requirements.

UBB.32 Temperature transmitter

Continuous output signal 4-20 alt. Pt100 signal.

Quality assurance

Class A acc. to EN60751. Transmitter acc. to directive EMC 2004/107/EC.



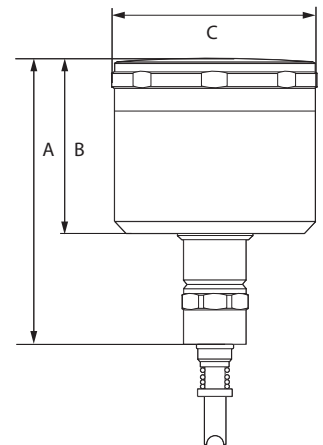
AT 7780

Material Specification

1	Insulating material	Plastic
2	Heat transfer plate	Stainless steel 1.4305
3	Neck	Stainless steel 1.4305

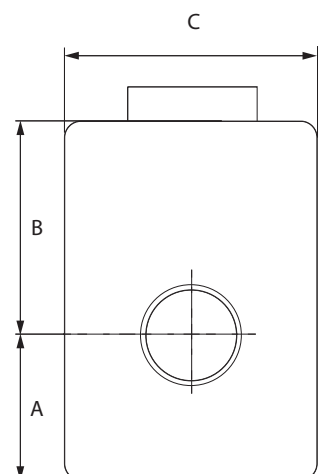
Measurement

A	83,5
B	51
C	60



Function and design

Temperature sensors primarily intended for hygiene applications where interference in the pipes is not desirable. Easily mounted on existing pipes. No welding required. The heat transfer between the PT100 sensor and the tube is achieved through a built-in contact system (a stainless steel ink). The PT100 sensor is protected by an insulating, removable block of heat-resistant plastic. Measurement technology PT 100, wire. Measurement range -40 ° C to + 150 ° C. Output PT 100 alternatively 4-20mA. The extremely small delay this method causes, compared to a traditional solution is usually negligible. See diagram.

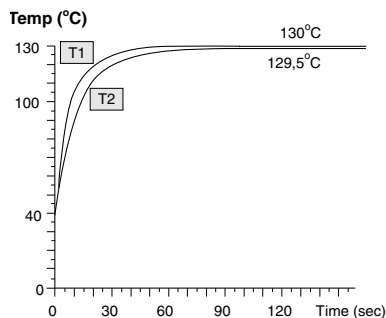


rör-Ø	A	B	C
4-17.2	20	30	35
18-38	30	40	70
38.1-57	40	50	85

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T1=PT100 with thermowell
T2=7780 no touch PT100

Technical information

PT100 sensor

Measuring range	-40°C to +150°C
Connection	3-wire
Accuracy PT100 element	Class A acc. to EN 60751
Protection class	IP65
Pipe dimension	4...57mm (outside diameter)
Electrical connection	Cable entry
Alternative output signal (stated upon ordering)	4-20mA

Technical information

Transmitter (option)

Supply voltage	24VDC
Connection	2-wire
Working temperature	-40°C to +85°C
Output signal*	4-20mA, invertable
Response-time*	1s (standard)
Accuracy (RTD)	≤ ±0,3 °C

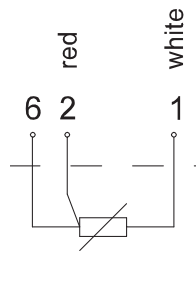
*Wanted inverted signal or other response time, specify this when ordering.

Accessories and options

As an option, the temperature sensor can be ordered with output 4-20mA. Measurement area is stated when ordering. Desired software for transmitter programming "Loop Link 5905" can be ordered separately..

Installation

The insulating plastic block consists of two parts and is mounted outside the tube by means of two hexagonal screws. It is important that the heat transfer plate is positioned against the pipe for best measurement results. The PT100 sensor can be mounted in any position but is advantageously fitted with the PT100 sensor underneath the tube, especially with steam or liquids.



How to order

Example: AT 7780-33,7T

AT 7780	33,7	T
Fig.no.	The pipes outer diameter	Transmitter