



Surface-contacting temperature sensor / tube contacting temperature sensor
with passive output

S+S REGELTECHNIK

ALTF 2

APPLICATION:

Surface-contacting sensors are electric contact thermometers, which are used for measuring surface temperatures of solids, having at least one so-called contact area that is brought into contact with the surface to be measured. A surface-contacting temperature sensor determines the temperature of a medium flowing inside a pipe (e.g. the water temperature) via the surface temperature. ALTF2 is a tube-contacting resistance thermometer with strap and terminal box enclosure made of impact-resistant plastic. It is used for temperature detection on piping and tubes (e.g. coldwater and hot-water), or on heating systems for heating system control.

TECHNICAL DATA:

Measuring range:..... - 30...+110°C
(other ranges optional)

Sensors/output:..... see table, passive
(optional also with two sensors)

Connection type:..... 2-wire connection
(3- or 4-wire connection optional)

Testing current:..... ca. 1 mA

Process connection:..... endless strap and metal tightener
(included in the scope of delivery)

Strap dimensions: Ø = 13-92 mm (1 / 4-3"), length 300 mm

Connecting head:..... plastic, material polyamide,
30% glass-globe-reinforced,
with quick-locking screws,
colour pure white (similar RAL9010)

Dimensions:..... 72x64x39.4 mm

Electrical connection: 0.14- 1.5 mm²
via terminal screws on circuit board

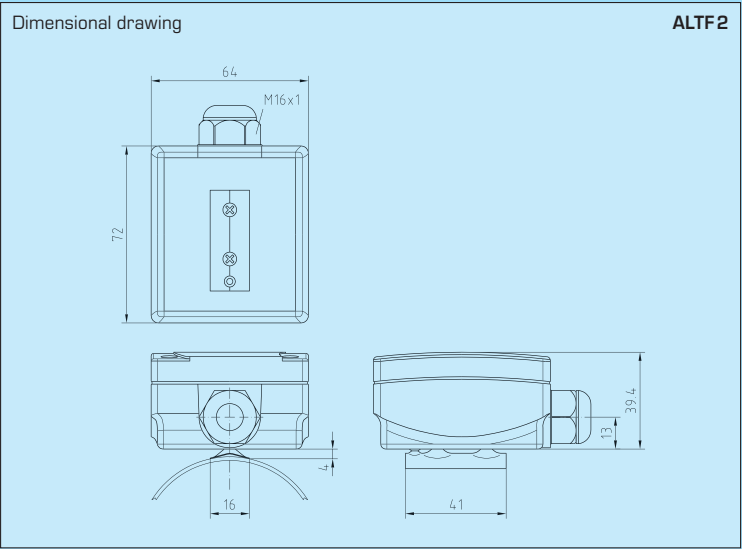
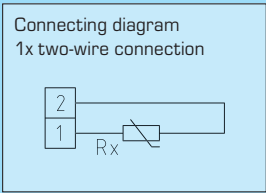
Cable union:..... M16, including strain relief

Insulating resistance:..... ≥ 100 MΩ, at 20 °C (500 V DC)

Humidity:..... <95% r.H.

Protection class: III (according to EN 60730)

Protection type:..... **IP 65** (according to EN 60529)



THERMASGARD® ALTF2, including strap:

Type/WG1	Sensor/output
ALTF 2 Pt100	Pt100 (according to DIN EN 60751, class B)
ALTF 2 Pt1000	Pt1000 (according to DIN EN 60751, class B)
ALTF 2 Ni1000	Ni1000 (according to DIN EN 43760, class B, TCR = 6180 ppm/K)
ALTF 2 Ni1000 TK5000	Ni1000 TK5000 (TCR = 5000 ppm/K)
ALTF 2 NTC 1,8kOhm	NTC 1.8kOhm
ALTF 2 KTY81-210, NTC10k, 20k, 30k, 50k, 10k Precon	KTY81-210, NTC10k, 20k, 30k, 50k, 10k Precon
ALTF 2 LM235Z	LM235Z (TCR = 10 mV/K; 2.73 V at 0 °C)
Accessories:	Heat-conductive paste, set
For special orders please specify:	Type, sensor type, and clamping range or tube diameter, 2-wire connection e.g. ALTF2 Pt100 1/3 DIN, 10"; ALTF2 KTY81-121, 7"