

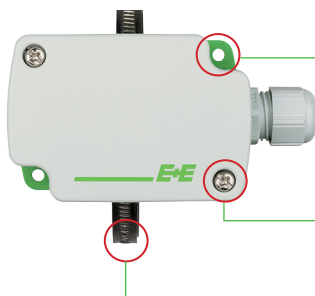
EE441

Strap-on Temperature Sensor

EE441 strap-on sensors are used for temperature measurement on round ducts and pipes. Typical applications are heating systems (warm and cold water pipes) and solar collectors. Various types of sensing elements such as Pt1000, NTC10k or Ni1000 are available. The innovative IP65 housing and the mounting concept allow for fast and easy installation.



Features



External mounting holes

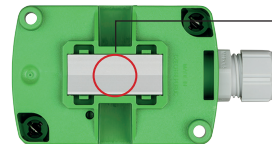
- » Mounting with closed cover
- » Mounting on plane surfaces
- » Protection against construction site pollution

Bayonet screws

- » Open/closed with a ¼ rotation

Hose clamp

- » Installation on pipes



Aluminium contact surface

- » Very good thermal transfer
- » Fast response time

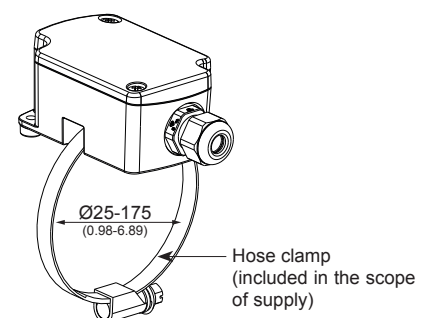
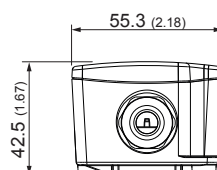
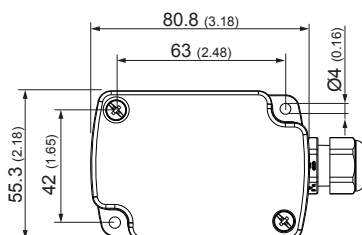


Technical Data

Operating temperature (contact area)	-40 °C...+110 °C (-40 °F...+230 °F)
Sensing element types	see ordering guide
Measurement current	typ. < 1 mA ¹⁾
T-Sensor connection	two-wire
Electrical connection	screw terminal, 2x max. 2.5 mm ² (0.004 in ²)
Insulation resistance	> 100 MΩ at 20 °C (68 °F)
Response time τ ₆₃	< 1 min
Enclosure material	polycarbonate, UL94-V0 approved
Protection class	IP65 / NEMA 4
Cable gland	M16x1.5, UL94-V2
Hose clamp material	stainless steel (corr. 1.4301 / 304)
Storage temperature	-30 °C...+70 °C (-22 °F...+158 °F)
Working and storage humidity range	5 % rh...95 % rh, no condensation

1) see technical information on T-sensors

Dimensions in mm (inch)



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Ordering Guide

MODEL	ANALOGUE OUTPUT	DIGITAL OUTPUT	T-SENSOR	HOUSING	DESIGN
Temperature (T)	none (x)	none (x)	Pt100 DIN B (B) Pt1000 DIN B (D) NTC10k (L) NTC1.8k (G) Ni1000 TK6180 DIN B (J) Ni1000 TK5000 DIN B (T)	Standard (P)	Standard (O)
EE441-					

Order Example

EE441-TxxDPO

Model: Temperature
 T-Sensor: Pt1000 DIN B
 Housing: Standard
 Design: Standard

Accessories

Conduit adapter, M16x1.5 to 1/2"

HA011110