

TENA LU FAST RESPONSE IMMERSION TRANSMITTER

TENA LU transmitter is especially designed for hot domestic water temperature control applications.

Temperature is detected by a Pt100 element with a nominal resistance of 100 $\Omega/0$ °C. The signal of the Pt 100 element is converted into a 0...10 V signal.

Sensor is protected by a stainless steel stem for prolonged life. Housing is made of heat resistant plastics.

The range can be chosen at the commissioning. Transmitter will be mounted to the water pipe by means of the R1/2" threads.

The bayonet cover and the terminal blocks tilted to 45° make an easy installation.

Range / Temperature / Output:

0/50	0/100*	-50/50	-50/150	V
0	0	-50	-50	0
25	50	0	50	5
50	100	50	150	10
on	on*	off	off	S1
off	on*	on	off	S2

* 0/100 = factory setting



Technical data:

Supply voltage	24 Vac/dc < 1 VA (22...30Vac/dc)
Sensor	Pt100 EN 60751/B
Output	0...10Vdc < 2mA
Ranges	selectable
Mounting	R 1/2" threads
Stem	∅ 4 mm x 80 mm HST steel
Housing	plastics (< 120 °C)
Prot. class	IP 54, cable entry or stem down
Cable entry	M16
Accuracy	± 0.5 °C (at 50 °C)
Time constant	ca 2.5 s
Pressure rating	PN 16
Transmitter	3-wire

Terminals:

1	supply 24 Vac/dc
2	0V
3	output 0-10 Vdc, ≤ 2mA

Ordering guide:

Model	Product number	Description
TENA LU	1179050	hot domestic water temperature transmitter, 3-wire, 0...10V
TE-N	1170130	display modul (cover)

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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