

TENA LU FAST RESPONSE IMMERSION TRANSMITTER / CONTROLLER

TENA LU temperature transmitter is designed for hot water temperature control applications. Transmitter information can be used to control other device in the HVAC system.

Temperature is measured by a Pt1000 sensor element. The sensor element resistance information is converted into a 0...10 V signal. The temperature range can be chosen at the commissioning.

TENA LU settings can be changed by using the ML-SER tool. One point field calibration of the transmitter can be executed and the temperature output can be changed to the controller function.

TENA LU transmitter can be equipped with a 3.5-digit liquid crystal display option TE-N V2. The display resolution is 0.1 °C.

Housing is made of heat resistant plastics. The bayonet cover and the terminal blocks tilted to 45° make an easy installation. The material of the stem is stainless steel for prolonged life. Sensor is installed to the water pipe by means of the R1/2" threads.

There are also available 50 mm and 210 mm immersion length transmitter versions for alternative installations.

Range selection

0+50 °C	*0+100 °C	-50+50 °C	-50+150 °C
S1 S2	S1 S2	S1 S2	S1 S2
• •		• •	• • •

^{* =} factory setting

Output signal

0+50	0+100	-50+50	-50+150	Signal
0 °C	0 °C	-50 °C	-50 °C	0 V
25 °C	50 °C	0 °C	50 °C	5 V
50 °C	100 °C	50 °C	150 °C	10 V



Technical data:

supply voltage 24 Vac/dc < 1 VA (22...30Vac/dc)

sensor Pt1000 EN 60751/B
output 0...10 Vdc < 2 mA
(temperature / controller)

temperature range selectable connection R $\frac{1}{2}$ " thread

stem Ø 4 mm x 85 mm, material AISI316

housing plastics (< 120 °C)

protection class IP54, cable entry or stem down

cable entry M16 pressure rating PN16

accuracy ± 0.5 °C (at 50 °C)

ambient temperature 0...+60 °C time constant 2.5 s

Wiring:

1 supply 24 Vac/dc

2 0 V

3 output 0...10 Vdc (temperature / controller)

Ordering guide:

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Model	Product number	Description
TENA LU	1179050	fast response temperature transmitter
TENA LU-50	1179051	fast response temperature transmitter, length 50 mm
TENA LU-210	1179052	fast response temperature transmitter, length 210 mm
TE-N V2	1170250	display module (cover)
ML-SER	1139010	transmitter commissioning tool

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