

Fast Response Immersion Transmitters

for hot water systems

TENA LU and TENA LL transmitters are especially designed for hot domestic water temperature control applications. Transmitters are protected by a stainless steel pocket for prolonged life. Housing is made of heat resistant plastics. The screw cover and the terminal blocks tilted to 45° make an easy installation.

Temperature is detected by a high quality Pt100 element and transmitted to the control system using a 0..10V (TEMV LU) or 4..20mA (TEMV LL) signal.

Transmitter is installed to the water pipe by means of the R1/2" threads.



Model Types	Model	Description
	TENA-LU	PT100 Fast Response Immersion Transmitter, 0..10Vdc output
	TENA-LL	PT100 Fast Response Immersion Transmitter, 4..20mA output
Technical Data	Sensor Element	Pt100 EN 60751/B
	Accuracy	±0.5°C (at 50°C)
	Connection	R1/2"
	Stem	Ø6mm x 100mm HST steel
	Housing	Plastic (<120°C)
	Protection class	IP 54, cable entry or stem down
	Cable entry	M16
	Ranges	0°C...+50°C, 0°C...+100°C, -50°C...+50°C, -50°C...+150°C
	Pressure Rating	PN16
	Time Constant	Approx. 2.5 sec
	Transmitter	2-wire (TENA LL) 3-wire (TENA LU)
	Supply Voltage	15..35Vdc (TENA LL) 24Vac (TENA LU)
	Agency Approvals	Emissions: EN50081-1: 1992 Immunity: EN50082-2: 1995 Safety Directive: 89/336/EEC
Wiring Terminals (TENA LU)	1	Supply 24Vac
	2	Common (0V)
	3	Output 0-10Vdc, < 2mA

Temperature/Output

0/50°C0	0/100°	-50/50°C	-50/150°C	mA (LL)	V (LU)
0	0	-50	-50	4	0
25	50	0	50	12	5
50	100	50	150	20	10
on	on*	off	off	Switch S1	
off	on*	on	off	Switch S2	

* 0/100°C = factory setting

Dimensions

