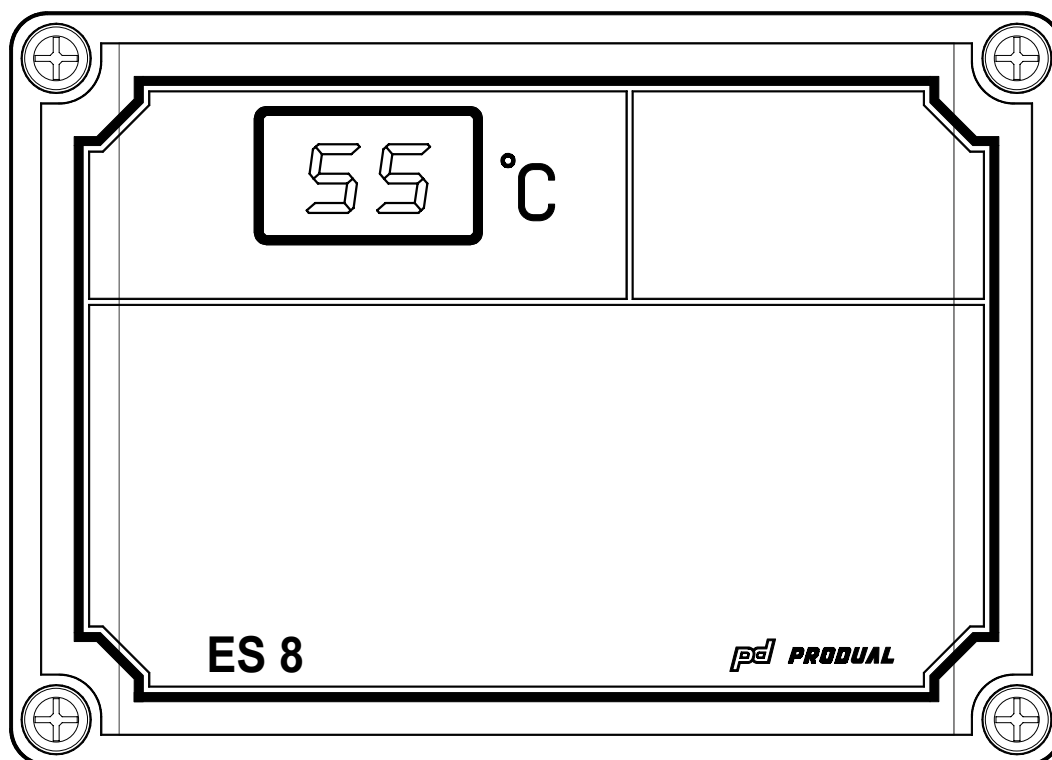


TEMPERATURE CONTROLLER ES 8 FOR HOT DOMESTIC WATER

Controller ES 8 detects the temperature of domestic water with a TENA 1000 sensor, and controls the 24Vac valve motor to achieve the set temperature. Digital display tells the temperature with an accuracy of 1 °C. Desired temperature 40...90°C is set by a knob located under the front cover. (Range can also be coded to 10...60°C.) Signal lights are telling the direction of acting (A=opening, K= closing). There is a switch for mains voltage. Controller drives the bidirectional motor step by step by triac-outputs according to PI control algorithm. A sudden change at the input will activate the output according to the proportional control (the length of the active sequence is adjusted from the Xp-trimmer). Integration reduces the deviation at a speed set from the Tn-trimmer.



Connection:

1	supply voltage	230 Vac
3	supply voltage	0 Vac
4	valve motor	closes (24Vac)
5	valve motor	common 0V
6	valve motor	opens (24Vac)
7	sensor	-
8	sensor	+

Technical data:

Supply voltage	230 Vac, 50 Hz
Power consumption	30 VA max.
Triac-outputs	1 A, 24 Vac
Sensor	1000 Ω/25 °C
Housing	plastic IP 65
Dimensions (w x h x d)	175 x 135 x 75 mm

Accessories:

Domestic water sensor	TENA 1000
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ES 8 CODING

	Sensor selection		Range selection	
	1000 Ω	2000 Ω	40...90 $^{\circ}\text{C}$	10...60 $^{\circ}\text{C}$
S1	• closed	open	-	-
S2	-	-	• closed	open

- factory setting

