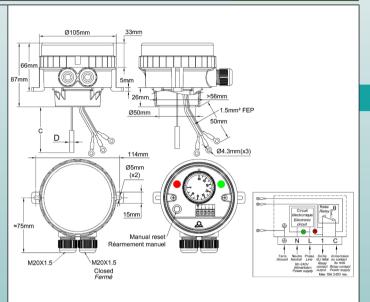
Electronic thermostats for immersion heaters

Enclosure	Туре	Operation	Contact	Measurement	Ranges °C	Model
IP66, IK10	Control	Electronic	SPNC	Immersion heater	-+110°C	1440°C
Material PA66 +PC	\bigcirc		1:		-+4°C	YF82NC





Applications:

- Equipment requesting a very strong resistance to water ingress. The transparent cover allows to visualize the set point and the 2 pilot lights

Fully wired sub assembly for direct mounting on immersion heater elements, 1"1/2 or M45x2 with double thread or rotation ring.

Applications in usual industrial applications and environments, non-hazardous areas.

- Very small differential

be modified without prior advice

features used on these data sheets are for guidance only and can

Housing: Protection class IP 66 upon EN 60529 (waterproof spray water under high pressure and sea splashes, totally dust tight). Body in black PA66, fiber glass reinforced. The transparent polycarbonate cover can be unscrewed by hand, but it is also possible to use a hook spanner. A removable adapter is screwed at the bottom of the enclosure. It fits the usual immersion heater fittings. Mechanical impact resistance: IK10. High UV resistance.

Set point adjustment: By °C printed knob. All types have an adjustable rotation limit system located inside the knob that allows reducing the set point adjustment span. °F printed knobs available in option

Operation: Microprocessor electronic thermostat, on-off action.

Set point adjustment ranges: 4-40°C (40-105°F); 30-90°C (85-195°F); 30-110°C (85-230°F).

Differential: Differential is preset at the minimum value, but can be increased with a potentiometer located under the set point adjustment knob.

Sensing element: The 5 × 30mm NTC sensor (10KOhms @25°C) goes out by the bottom of the enclosure to fit in the immersion heater pocket.

Pilot lights: One pilot light visualizes the thermostat contact output position. The other visualizes the power supply input. Phase and line 230V power supply is mandatory for these pilot lights.

Cable input and output: Two M20 cable glands, built-in black PA66. One of them is closed.

Electrical connections: Inside, on screw terminal connection block.

Earthing: Internal screw terminal and 1.5mm² FEP insulated wire with round hole terminals for the immersion heater.

Mounting: By the immersion heater thread or by 2 legs with holes for screws dia. 4 to 5mm, 114mm distance

Identification: Identification label on backside.

Contact: SPNC. 16A (2.6), 250VAC. Contact open on temperature rise

Electrical life: >100,000 cycles.

Minimum storage temperature: -35°C (-30°F) Maximum ambient temperature: 60°C (140°F)

For more technical information ask 2PE2N6 thermostat technical data sheet.

Web: www.ultimheat.com

Electronic thermostats for immersion heaters

Main references

Temperature adjustment ranges °C (°F)	References with SPNC contact, open on temperature rise	NTC sensor cable length (C, mm)	Minimum differential °C (°F)	
4-40°C (40-105°F)	. ,		0.5~0.8°C (0.9~1.4°F)	
4-40°C (40-105°F)	YF82NC04040178UJ	170	0.5~0.8°C (0.9~1.4°F)	
4-40°C (40-105°F)	YF82NC04040238UJ	230	0.5~0.8°C (0.9~1.4°F)	
4-40°C (40-105°F)	YF82NC04040308UJ	300	0.5~0.8°C (0.9~1.4°F)	
4-40°C (40-105°F)	YF82NC04040458UJ	450	0.5~0.8°C (0.9~1.4°F)	
4-40°C (40-105°F)	4-40°C (40-105°F) YF82NC04040608UJ		0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	YF82NC30090118UJ	110	0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	30-90°C (85-195°F) YF82NC30090178UJ		0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	YF82NC30090238UJ	230	0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	YF82NC30090308UJ	300	0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	YF82NC30090458UJ	450	0.5~0.8°C (0.9~1.4°F)	
30-90°C (85-195°F)	YF82NC30090608UJ	600	0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	YF82NC30110118UJ	110	0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	30-110°C (85-230°F) YF82NC30110178UJ		0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	30-110°C (85-230°F) YF82NC30110238UJ		0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	30-110°C (85-230°F) YF82NC30110308UJ		0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	30-110°C (85-230°F) YF82NC30110458UJ		0.5~0.8°C (0.9~1.4°F)	
30-110°C (85-230°F)	30-110°C (85-230°F) YF82NC30110608UJ		0.5~0.8°C (0.9~1.4°F)	

[°]F printing: replace last character (J) by K

Knob printings

	°C Printing		°F Printing		
4-40°C	30-90°C	30-110°C	40-105°F	85-195°F	85-230°F
40 33	90 46	100 80 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 %	186 S	186 S S S S S S S S S S S S S S S S S S S

Cat2-2-11-8 Contact us Web: www.ultimheat.com