

STP500

Immersion Pipe Temperature Sensor

NTC 10 k Ω for Continuum



The STP500 is designed for immersion mounting in pipe systems with a separate pocket (well). The pocket is closed in the bottom, making it easy to replace the sensor, if necessary. The STP500 housing is equipped with a 20 mm cable fitting. The pocket must be ordered separately, see Accessories overleaf.

TECHNICAL DATA

Part numbers see table

Sensor element NTC, 10 k Ω at +25 °C (77 °F)

Time constant without pocket in water. approx. 7 s

Time constant with pocket in water:

Pocket type	Contact paste	w/o Contact paste
Brass PN16	19 s	23 s
SS PN25	20 s	24 s

Materials:

Immersion tube stainless steel

Connection box polyamide plastic

Enclosure rating. IP 65

Dimensions see figure and table overleaf

Accuracy see table overleaf

Temperatures

Ambient min. -10 °C (-14 °F)

. max. 110 °C (230 °F)

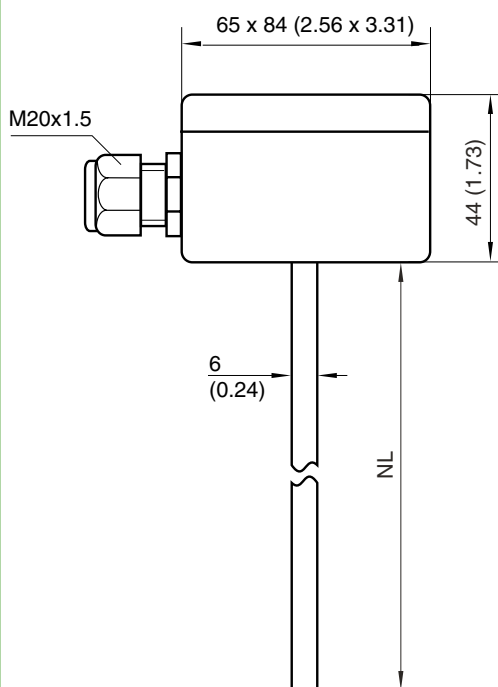
Operating. min. -40 °C (-40 °F)

. max. 150 °C (302 °F)

Standards

EMC. EN 50081-1, EN 50082-1

DIMENSIONS (mm/in)



PART NUMBERS

Part Number	Description	Probe mm (in)	NL mm (in)	Weight g (lb)
512-3170-010	STP500-50	50 (1.97)	63 (2.48)	100 (0.22)
512-3174-010	STP500-150	150 (3.94)	163 (6.42)	107 (0.24)
512-3176-010	STP500-200	200 (5.9)	213 (8.39)	110 (0.25)
512-3180-010	STP500-300	300 (7.87)	313 (12.32)	117 (0.26)

ACCESSORIES

	Part Number	Description	Length mm (in)	Weight g (lb)
Brass NI plated pocket PN16				
	912-1040-000	Pocket STP50 mm	63 (2.48)	85 (0.19)
	912-1041-000	Pocket STP100 mm	113 (4.45)	100 (0.22)
	912-1042-000	Pocket STP150 mm	163 (6.42)	115 (0.25)
	912-1043-000	Pocket STP200 mm	213 (8.39)	130 (0.29)
	912-1044-000	Pocket STP250 mm	263 (10.35)	145 (0.32)
	912-1045-000	Pocket STP300 mm	313 (12.32)	160 (0.35)
	912-1046-000	Pocket STP400 mm	413 (16.26)	190 (0.42)
Stainless steel pocket PN25				
	912-1050-000	Pocket STP50 mm	63 (2.48)	75 (0.17)
	912-1051-000	Pocket STP100 mm	113 (4.45)	85 (0.19)
	912-1052-000	Pocket STP150 mm	163 (6.42)	95 (0.21)
	912-1053-000	Pocket STP200 mm	213 (8.39)	105 (0.23)
	912-1054-000	Pocket STP250 mm	263 (10.35)	115 (0.25)
	912-1055-000	Pocket STP300 mm	313 (12.32)	125 (0.28)
	912-1056-000	Pocket STP400 mm	413 (16.26)	145 (0.32)

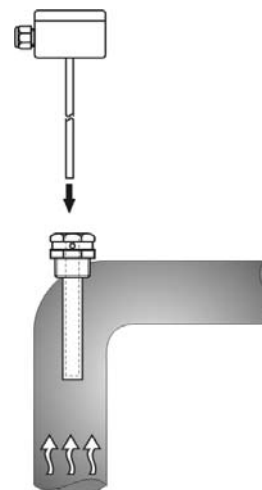
ACCURACY

At Temperature	Accuracy
-25 °C/-13 °F	±0.5 °C/±0.9 °F
±0 °C/32 °F	±0.2 °C/±0.4 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
70 °C/158 °F	±0.2 °C/±0.4 °F
100 °C/212 °F	±0.5 °C/±0.9 °F

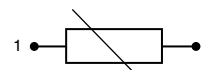
MOUNTING

Mount the pocket in the pipe system.

Apply some conductive paste, insert the sensor in the pocket and tighten the securing screw.



WIRING



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