

STP100

Immersion Pipe Temperature Sensor

NTC 1.8 kΩ for Vista



The STP100 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 STP100 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, 1.8 kΩ at +25 °C (77 °F)

Time constant without pocket in water. approx. 7 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)

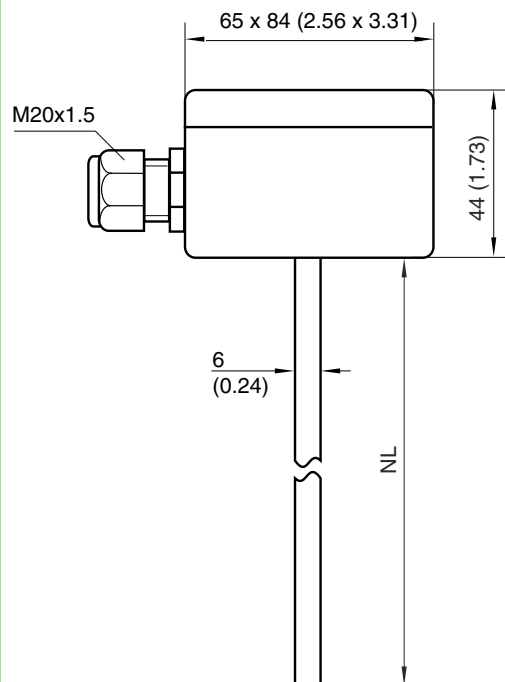
Standards

EMC EN 50081-1, EN 50082-1

Time constant with pocket in water:

Pocket Type	w/ Contact Paste	w/o Contact Paste
Prass PN16	19 s	23 s
SS PN25	20 s	24 s

DIMENSIONS (mm/in)



PART NUMBERS

Part Number	Description	Probe mm (in)	NL mm (in)	Weight g (lb)
512-3102-010	STP100-50	50 (1.97)	63 (2.48)	100 (0.22)
512-3104-010	STP100-100	100 (3.94)	113 (4.45)	104 (0.23)
512-3106-010	STP100-150	150 (5.9)	163 (6.42)	107 (0.24)
512-3108-010	STP100-200	200 (7.87)	213 (8.39)	110 (0.25)
512-3110-010	STP100-250	250 (9.84)	263 (10.35)	113 (0.25)
512-3112-010	STP100-300	300 (11.81)	313 (12.32)	117 (0.26)
512-3114-010	STP100-400	400 (15.75)	413 (16.26)	125 (0.28)

ACCURACY

At Temperature	Accuracy
-25 °C/-13 °F	±0.7 °C/±1.3 °F
±0 °C/32 °F	±0.5 °C/±0.9 °F
25 °C/77 °F	±0.3 °C/±0.5 °F
50 °C/122 °F	±0.6 °C/±1.1 °F
75 °C/167 °F	±0.9 °C/±1.6 °F
100 °C/212 °F	±1.3 °C/±2.3 °F

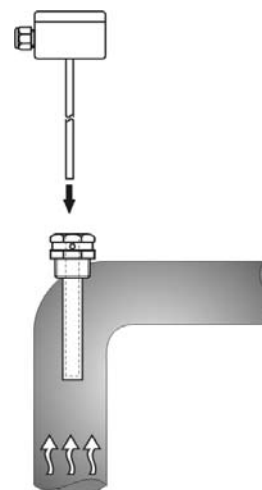
ACCESSORIES

	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)

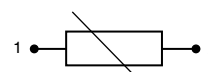
MOUNTING

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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