



STP100, STP101

D-12-41

Immersion pipe temperature sensor
NTC 1.8 kohm

16 Feb 2005

STP100 / STP101 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.

STP100 housing is equipped with a Pg11 cable fitting.

STP101 housing has a $\varnothing 20$ mm (0.79 in.) plugged hole for the cable.

The pocket has to be ordered separately, see Accessories.



TECHNICAL SPECIFICATION

Part number see table
Sensor element NTC, 1.8 kohm at +25 °C (77 °F)

Time constant without pocket in water approx. 7 s
Time constant with pocket in water:

Pocket type	With Contact past	Without Contact past
Brass PN16	19 s	23 s
Stainless steel PN25	20 s	24 s

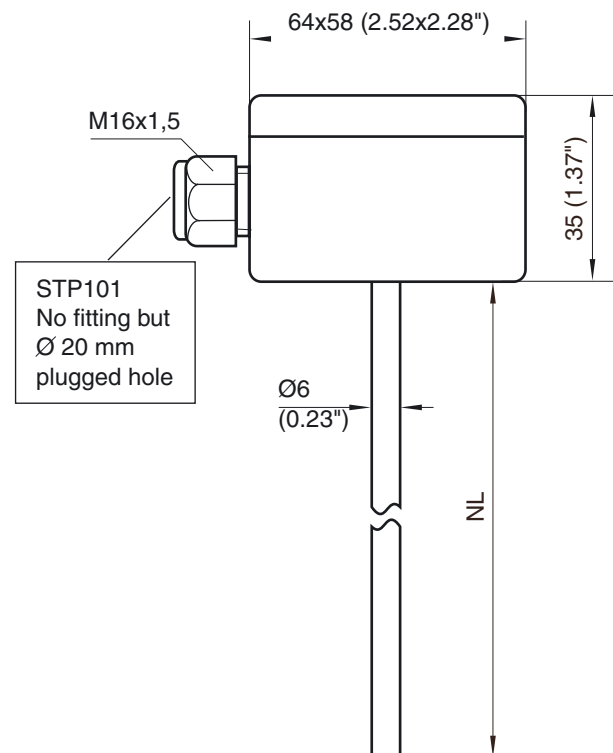
Materials:

Immersion tube stainless steel
Connection box polyamide plastic
Enclosure rating IP 65
Dimensions (in mm) according to figure and table
Accuracy see table overleaf
Ambient temperature min. -40 °C (-40 °F)
max. +130 °C (+266 °F)
Operating temperature min. -40 °C (-40 °F)
max. +150 °C (+302 °F)

Standards:

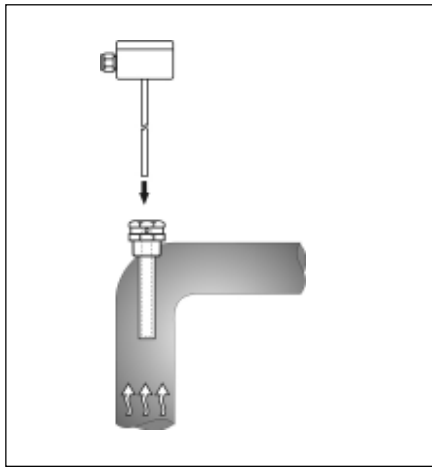
EMC EN 50081-1, EN 50082-1

Dimensions mm (inches)



Part number	Description	NL		Weight	
		mm	In.	g	lb
512-3102-000	STP100-50	63	2.48	100	0.22
512-3104-000	STP100-100	113	4.45	104	0.23
512-3106-000	STP100-150	163	6.42	107	0.24
512-3108-000	STP100-200	213	8.39	110	0.25
512-3110-000	STP100-250	263	10.35	113	0.25
512-3112-000	STP100-300	313	12.32	117	0.26
512-3114-000	STP100-400	413	16.26	125	0.28
512-3116-000	STP101-50	63	2.48	100	0.22
512-3118-000	STP101-100	113	4.45	104	0.23
512-3120-000	STP101-150	163	6.42	107	0.24
512-3122-000	STP101-200	213	8.39	110	0.25
512-3124-000	STP101-250	263	10.35	113	0.25
512-3126-000	STP101-300	313	12.32	117	0.26
512-3128-000	STP101-400	413	16.26	125	0.28

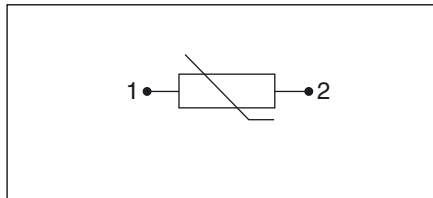
MOUNTING



Mount the pocket in the pipe system.

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

WIRING



ACCURACY

Accuracy at:

-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 (L)		Weight	
			mm	In.	g	lb
Brass NI plated pocket PN16						
	912-1040-000	Pocket STP 50 mm	63	2.48	85	0.19
	912-1041-000	Pocket STP 100 mm	113	4.45	100	0.22
	912-1042-000	Pocket STP 150 mm	163	6.42	115	0.25
	912-1043-000	Pocket STP 200 mm	213	8.39	130	0.29
	912-1044-000	Pocket STP 250 mm	263	10.35	145	0.32
	912-1045-000	Pocket STP 300 mm	313	12.32	160	0.35
	912-1046-000	Pocket STP 400 mm	413	16.26	190	0.42
Stainless steel pocket PN25						
	912-1050-000	Pocket STP 50 mm	63	2.48	75	0.17
	912-1051-000	Pocket STP 100 mm	113	4.45	85	0.19
	912-1052-000	Pocket STP 150 mm	163	6.42	95	0.21
	912-1053-000	Pocket STP 200 mm	213	8.39	105	0.23
	912-1054-000	Pocket STP 250 mm	263	10.35	115	0.25
	912-1055-000	Pocket STP 300 mm	313	12.32	125	0.28
	912-1056-000	Pocket STP 400mm	413	16.26	145	0.32

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