

INSPECTION

Inspection of the probe SME 32.2T must be made regularly. The probe must be free of scale, sludge, rust etc. Clean regularly the tip on the probe, distance disk and the PT 100 protection steel tube which also is used as reference measuring point.

TROUBLESHOOTING

Check the length of the probe, the end of the probe/tip where the measuring takes place must touch the circulating water but also be protected inside a water column see drawing: SME 32 EUS400.

Placement of the probe on the boiler drum should be in the same level as the lower connection to the level gages or below the low-low water line.

If the probe are installed outside the boiler into a water column a frequent replacement of the water must be done regularly.

Check the wiring connection between module EUS and probe SME 32.2T.

Module EUS terminal No.	13 ---	Probe No. 4	3-4 PT 100 temperature measuring
	14-----	3	
	15-----	2	(Ref./Gnd)
	16-----	1	(Probe tip)

Check that only terminal 15 is connected to probe terminal 2 (ref/gnd)

Check the resistance across the insulation by measuring between terminal 15 – 16.

This measuring can only be taken when the water level is below the probe/tip.

If the resistance is less 1M Ohm the probe must be removed from the boiler and cleaned for all covering.

Check the PT 100 temperature resistance by measuring from the module terminal 13 – 14.

The below table indicates the approx. resistance (Ohm) by different pressure/temperature.

BAR	TEMP.°	OHM	SPARE PART LIST	
1	119,6	146,0	No.	
2	132,9	150,9		
3	142,9	154,7	002015	Module EUS panel mounting
4	151,1	157,7		Power supply 230VAC
5	158,1	160,3		
6	164,2	162,5	004035	Probe SME 32.2T 350mm
7	169,6	164,8		Spec. length on request
8	174,5	166,4		
9	179,0	168,1		
10	183,2	169,6	004027	CU Gasket SME 32
11	187,1	171,1		
12	190,7	172,2	004030	Distance stay PTFE Ø 34mm
13	194,1	173,6		
14	197,4	174,8	004043	Plug in connector upper part
15	200,4	175,9		female / PG 11 connection
16	203,4	177,0	004044	Plug in connector under part
17	206,1	178,1		male
18	208,8	179,1		
19	211,4	179,9		
20	213,9	181,0		

EUS Inspec.