

FERROTRON

A **MINTEQ** DIVISION

Immersion temperature measurement probes



for molten metal baths

Probes for the immersion temperature measurements in molten metals baths

Pt 10% Rh-Pt (type S)

Pt 30% Rh-Pt 6% Rh (type B)

Pt 13% Rh-Pt (type R)

in accordance with IPTS 68 (DIN IEC 584-1) or IPTS 48 on request

**FERROTRON PRODUCTS
ARE MANUFACTURED
IN CONFIRMITY WITH
THE QUALITY ASSURANCE
SYSTEM DIN ISO 9001:2000
EN 29001**

Technical data

Probe measurement head	Electroceramic
Insulation	Special cement
Slag protection	Steel cap for temperatures > 1520°C Aluminium cap for temperatures < 1520°C Copper cap for copper melts
Contact system	Standard coaxial contact Lance diameter 16 mm
Cardboard tube	Parallel wounded, wall thickness 6 mm Inner diameter 17,5 mm Standard nominal lengths 600 mm 900 mm 1200 mm 1700 mm other lengths on request
Response time	1 to 3 seconds
Reproducibility	± 1°C
Tolerance	improved to class 1 DIN IEC 584-2
Order number	TTS / length / Pt... slag protection cap
Non-splash protection	Technical data as per standard probes, specially placed Al-Si fiber splash protection for movement deep in the molten bath so that no splashes occur on the melt surface, effective immersion depth 300 mm
Order number	as for standard probes plus .../SPR

Immersion temperature measurement probes, thermocouples type S

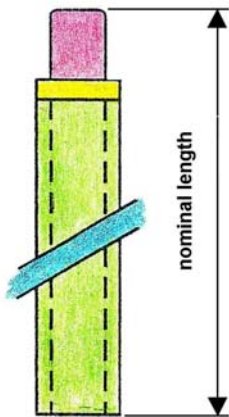
Composition according DIN IEC 584-1: Platinumrhodium-Platinum (Pt10Rh-Pt), tolerance according to DIN IEC 584-1: improved to class 2, response time 1 - 3s, reproducibility: $\pm 1^{\circ}\text{C}$

Immersion temperature measurement probes, thermocouples type R

Composition according DIN IEC 584-1: Platinumrhodium-Platinum (Pt13Rh-Pt), tolerance according to DIN IEC 584-1: improved to class 2, response time 1 - 3s, reproducibility: $\pm 1^{\circ}\text{C}$

Immersion temperature measurement probes, thermocouples type B

Composition according DIN IEC 584-1: Platinumrhodium-Platinum (Pt30Rh-Pt6Rh), tolerance according to DIN IEC 584-1: improved to class 2, response time 1 - 3s, reproducibility: $\pm 1^{\circ}\text{C}$

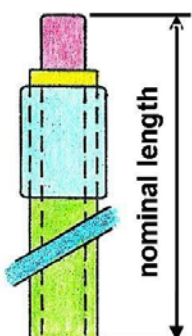


nominal length [mm]	Steel cap	Aluminium cap
	type	type
300	TTS 300 PT XX	TTS 300 PT XX Alu
400	TTS 400 PT XX	TTS 400 PT XX Alu
500	TTS 500 PT XX	TTS 500 PT XX Alu
600	TTS 600 PT XX	TTS 600 PT XX Alu
700	TTS 700 PT XX	TTS 700 PT XX Alu
800	TTS 800 PT XX	TTS 800 PT XX Alu
900	TTS 900 PT XX	TTS 900 PT XX Alu
1200	TTS 1200 PT XX	TTS 1200 PT XX Alu
1500	TTS 1500 PT XX	TTS 1500 PT XX Alu
1700	TTS 1700 PT XX	TTS 1700 PT XX Alu

Immersion temperature measurement probes, splash-free model type S

Immersion temperature measurement probes, splash-free model type R

Immersion temperature measurement probes, splash-free model type B



nominal length [mm]	Protection cap	Length non-splash protection	type
300	Alu/Fe	72	TTS 300 Pt XX Alu SPR
400	Alu/Fe	72	TTS 400 Pt XX Alu SPR
600	Alu/Fe	300	TTS 600 Pt XX Alu SPR
900	Alu/Fe	300	TTS 900 Pt XX Alu SPR
1200	Alu/Fe	300	TTS 1200 Pt XX Alu SPR

Other non-splash protection tube lengths and models available upon customer request.

Information contained herein is believed to be accurate and reliable. However, no responsibility is assumed by MINTEQ/Ferrotron for its use. Technical data are subjected to change without notice.

File: M-FE-50-PDF-TTS

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