RTD SENSORS FOR FERMENTERS

RHF400

APPLICATIONS

- Process monitoring
- Temperature monitoring
- Monitoring of CIP-/SIP- process

PROCESS CONNECTION

- Standard lengths 46mm / 52mm
- CIP/SIP cleaning up to 150°C
- All stainless steel construction

FEATURES

- Pt100 3-wire single / dual circuit
- Class A or higher accuracy
- Wetted parts made of SS316L
- Roughness value (Ra) ≤ 0.8 µm (standard)
- SS 304 terminal head and coupling nut
- EPDM sealing ring
- Operating pressure 10 bar
- Temperature range- ambient -50... +85°C
- Temperature range- sensors tip -50...+150°C
- Polyamide cable gland, M20X1.5 (M)
- Protection class, IP67

OPTIONS / ACCESSORIES

- Pt100, 4-wire
- Custom port sheath lengths
- 2 x Pt100 (not- retrofittable)
- Available with Weatherproof terminal head (Model RHF300) and flameproof terminal head (Model RXF300)
- 4-20 mA output (Model RHF410)
- Sensors tip with 4 mm (Straight)
- Sensor tips with 6 mm reduced to 4 mm & 8 mm reduced to 5 mm
- Surfaces with Ra ≤ 0.38 µm for wetted parts
- Hastalloy C-276 material
- M12 connector for easy electrical installation (Refer Model RHF500)

ACCURACY OF Pt100 AS PER IEC 60751

Pt100	A (½B)	AA (⅓B)
0°C (100Ω)	±0.15°C/±0.06Ω	±0.1°C/±0.04Ω
100°C (138.5Ω)	±0.35°C/±0.13Ω	±0.27°C/±0.1Ω
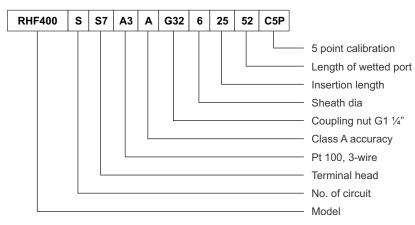
RESPONSE TIME
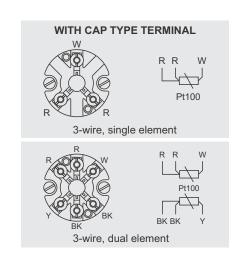
Tip Dia.	Imm. Length	$T_{0.5}$	$T_{0.9}$
6 mm	25 mm	4 s	9 s

$T_{0.5}$ and $T_{0.9}$ shows the response times at 50% and 90% of the step change.
This data is measured by immersing the sensing bulb from ambient temperature to boiling water flowing at 0.4 m/sec.
The result may vary according to the measuring environment and condition.

HOW TO ORDER

| RHF400 | S | S7 | A3 | A | G32 | 6 | 25 | 52 | C5P |

- 5 point calibration
- Length of wetted port
- Insertion length
- Sheath dia
- Coupling nut G1 ¼"
- Class A accuracy
- Pt 100, 3-wire
- Terminal head
- No. of circuit
- Model

WITH CAP TYPE TERMINAL

3-wire, single element

3-wire, dual element

DAT#108R5