RTD SENSORS FOR FERMENTERS

RHF300

APPLICATIONS

- Process monitoring
- Temperature measurement in fermenter connection
- Monitoring of CIP-/SIP process

PROCESS CONNECTION

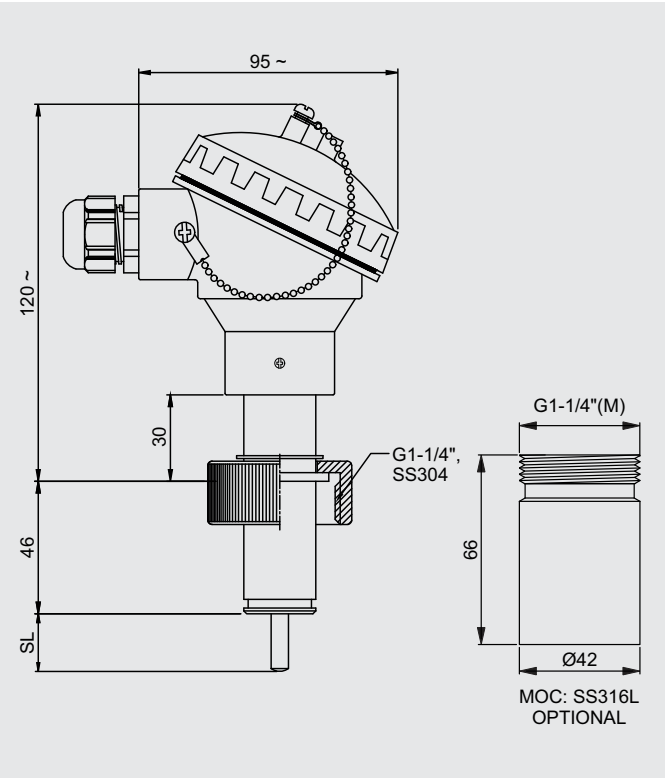
- Standard lengths 46mm / 52mm
- CIP-/SIP cleaning up to 150°C
- All stainless steel construction

FEATURES

- Pt100 3-wire single / dual circuit
- Class A or higher accuracy
- 6mm sheath dia (straight)
- Wetted parts made of SS316L (1.4404)
- Weatherproof die cast aluminium head with threaded cap & chain
- SS304 coupling nut
- EPDM sealing ring
- Roughness value (Ra) ≤ 0.8 µm (standard)
- Operating pressure 10 bar
- Temperature range - ambient -50... +85°C
- Temperature range - sensors tip -50...+150°C
- Protection class, IP67

OPTIONS

- Pt100, 4-wire
- Custom port sheath lengths
- 2 x Pt100 (not - retrofittable)
- ATEX certified terminal head, epoxy painted (Model RXF300)
- 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
- Head mounted transmitter
- Electropolished SS316 terminal head
- Cable gland, nickel plated brass
- Flameproof head certified for gas groups IIB & IIC, Zone 1 & Zone 2, certified by CSIR (Model RXF300)
- CE certification



ACCURACY OF Pt100 AS PER IEC 60751

Pt100	A (⅓B)	AA (⅛B)
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

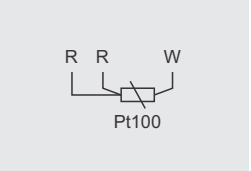
$T_{0.5}$ and $T_{0.9}$ shows the response times at 50% and 90% of the step change. This data is measured by immersing the sensing bulb from ambient temperature to boiling water flowing at 0.4 m/sec.
The result may vary according to the measuring environment and condition.

HOW TO ORDER

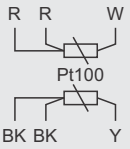
RHF300	S	W3	A3	A	G32	6	25	46	X	X	X

- Optional accessories
- No. of calibration points
- Termination
- 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

CIRCUIT DIAGRAM



3-wire, single element



3-wire, dual element

TERMINATION

CODE	TYPE
FL	Flying leads
TB	Terminal block

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