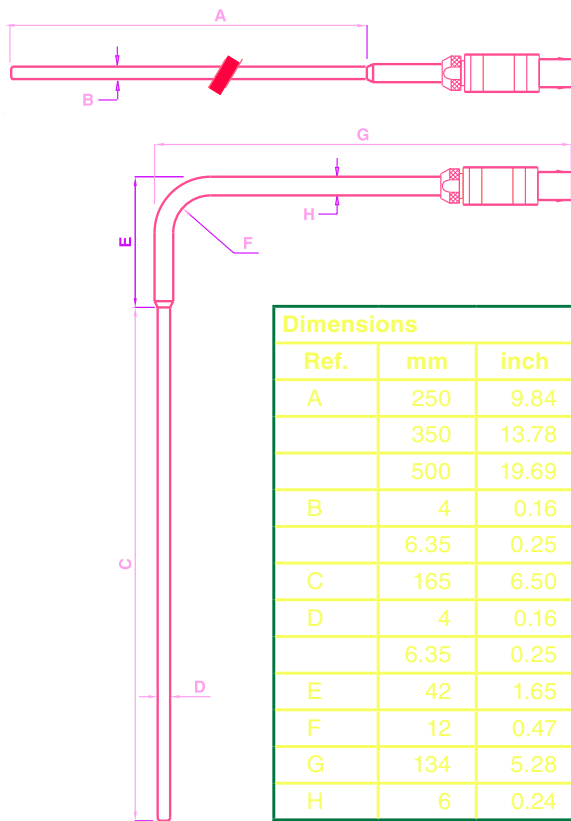


JOFRA™ STS-100 A/B



STANDARD DELIVERY

- STS-100 A/B probe
- Cable - according to order number
- Accredited certificate, points:
-45, -20, 0, 50, 100, 200, 320, 450 and 650°C
- 90° angled probe: Plastic carrying case with foam insert
- Straight probes: Aluminium case with foam insert
- User manual

ACCESSORIES

65-PT100-LL-CABLE	Cable 2 m (6.6 ft.) + LEMO to LEMO
65-PT100-LB-CABLE	Cable 2 m (6.6 ft.) + LEMO to banana
122801	Cable 0.5 m (1.6 ft.) LEMO to LEMO

COMPATIBLE JOFRA INSTRUMENTS

The JOFRA STS-100 probes can be used with the following JOFRA instruments:

JOFRA DTI-1000, spec. sheet no. SS-CP-2290
 JOFRA DTI050, spec. sheet no. SS-CP-2295
 JOFRA ATC series, spec. sheet no. SS-CP-2285
 JOFRA ASC300, spec. sheet no. SS-CP-2350
 JOFRA AMC900, spec. sheet no. SS-CP-2380

See the above-mentioned specification sheets and further information about the JOFRA instruments at www.jofra.com

SPECIFICATIONS STS-100 A / B

Temperature range

All probes -150 to 650°C / -238 to 1202°F

Accuracy

Hysteresis¹⁾ @0°C / 32°F.....0.01°C / 0.02°F

Long term stability²⁾ @0°C / 32°F.....typ. 0.014°C / 0.025°F

Repeatability¹⁾0.002°C / 0.0036°F

Note 1: When used in the range -80 to 650°C / -112 to 1202°F.

Note 2: When exposed to 650°C / 1202°F for 100 h. Stability will depend on actual use of the sensor.

Sensing element

Type.....Pt100

Nominal resistance@0°C / 32°F.....100 Ω

Length 40 mm / 1.6 in

Temperature coefficient $\alpha_{100}=0.00385$ 1/°C

Minimum immersion depth

STS-100 A (4 mm / 0.16 in): 100 mm / 3.9 in

STS-100 B (6.35 mm / 0.25 in): 110 mm / 4.3 in

Self-heating effect

0.06°C/mW / 0.108°F/mW

Response time

STS-100 A (4 mm / 0.16 in): $\tau_{0.5}$ (50%)..... 8 seconds

STS-100 A (4 mm / 0.16 in): $\tau_{0.9}$ (90%)..... 26 seconds

STS-100 B (6.35 mm / 0.25 in): $\tau_{0.5}$ (50%).....18 seconds

STS-100 B (6.35 mm / 0.25 in): $\tau_{0.9}$ (90%)..... 44 seconds

Liquid in motion $v=0.4$ m/s.

Electrical connections

Cable4 wire + shield

Connection LEMO goldplated

Insulation resistance

@ 23°C / 73°F 100 Gohm

@ 650°C / 1202°F 70 Mohm

Outer tube

Inconel 600

Operating conditions

(Probe, connection, and cable) Max. 70°C / 158°F

Storage temperature -20 to 70°C / -4 to 158°F

Humidity 0 to 90% RH

Protection class (connectors) DIN 40050 IP-50

Shipping dimensions - including carrying case

Straight probes, L x W x H 750 x 140 x 140 mm / 29.5 x 5.5 x 5.5 in

90° angled probe, L x W x H 220 x 250 x 60 mm / 8.7 x 9.8 x 2.4 in

..... 220 x 250 x 60 mm / 8.7 x 9.8 x 2.4 in

Shipping weight including packing

Straight probes..... 1.9 kg / 4.2 lb

90° angled probe..... 550 g / 1.2 lb