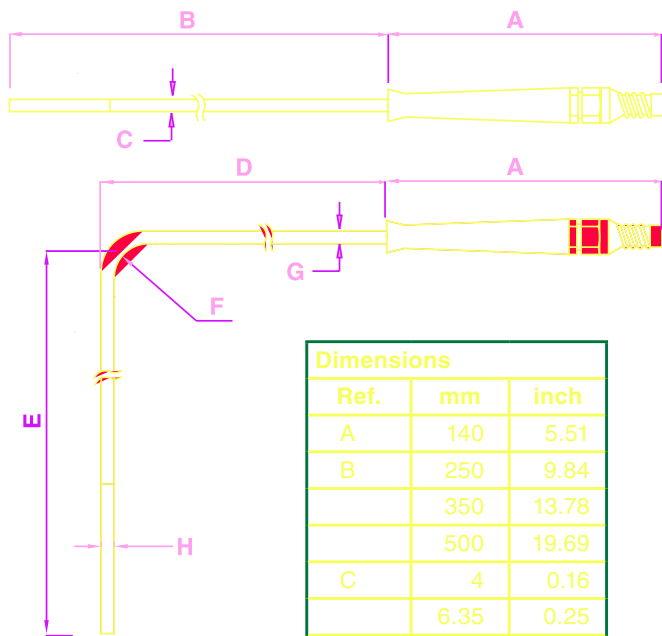


JOFRA™ STS-050 A/B



Dimensions		
Ref.	mm	inch
A	140	5.51
B	250	9.84
	350	13.78
	500	19.69
C	4	0.16
	6.35	0.25
D	100	3.93
E	200	7.87
F	12	0.47
G	6.35	0.25
H	6.35	0.25

STANDARD DELIVERY

- JOFRA STS-050 A/B probe with handle
- Cable - according to order number
- Traceable certificate, points:
-45, -20, 0, 100, 250 and 400°C
- 90° angled probe: Carton case with foam insert
- Straight probes: Carton case with foam insert
- User manual

COMPATIBLE JOFRA INSTRUMENTS

The JOFRA STS-050 probes can be used with the following JOFRA instruments:

JOFRA DTI050, spec. sheet no. SS-CP-2295

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

SPECIFICATIONS STS-050 A / B

Temperature range

All probes -50 to 400°C / -58 to 752°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⁾ 0.005°C / 0.009°F

1) when used in the range -50 to 400°C / -58 to 752°F.

2) when exposed to 400°C / 752°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 22 mm / 0.9 in

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

Minimum immersion depth

STS-050 A (4 mm / 0.16 in): 60 mm / 2.36 in

STS-050 B (6.35 mm / 0.25 in): 90 mm / 3.54 in

Self-heating effect

0.04°C/mW / 0.07°F/mW

Response time

STS-050 A (4 mm / 0.16 in): $\tau_{0.5}$ (50%) 7 seconds

STS-050 A (4 mm / 0.16 in): $\tau_{0.9}$ (90%) 17 seconds

STS-050 B (6.35 mm / 0.25 in): $\tau_{0.5}$ (50%) 11 seconds

STS-050 B (6.35 mm / 0.25 in): $\tau_{0.9}$ (90%) 30 seconds

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

Electrical connections

Cable 4 wire

Connection REDEL goldplated

Insulation resistance

@ 23°C / 73°F 100 Gohm

@ 400°C / 752°F 70 Mohm

Outer tube

AISI 316

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 DIN 40050 IP-50

See ordering information at the next page (page 12).