

Specialty Thermocouple Probes

Heavy Duty Penetration Probe

This new "T-bar construction" style probe is made from 304SS to insure long term performance. Possible uses include the frozen food industry, or any industrial application where penetration is needed. Standard RSC coiled cable stretches to 1.5 m (5'). The sensing element is 1/4" O.D. and 203 mm (8") long. Temperature range is from sub-zero to 425°C (800°F) for type E, to 480°C (900°F) for type K. * Specify thermocouple type: J,K,T,E.



**MEETS OR EXCEEDS
SPECIAL LIMITS
OF ERROR (SLE)
AND EN 60584-2:
Tolerance Class 1**

Model 88313

\$80



"Tee-Style" Penetration Probe

Penetration and machine threaded-tip probes with new Tee-style 304 stainless steel handle are ideal for industry use or frozen food applications. The probe's 304SS thick wall tube ensures strong and rigid performance. Each probe comes with 305 mm (1') of RSC cable that stretches to 1.5 m (5') and a male miniature connector. The probe features a 6.4 mm (0.25") dia., with a 250 mm (10") immersion length from the tip to handle. The handle is 75 mm (3") in length. Maximum temp rating: 480°C (900°F) for type K, 425°C (800°F) for type E.

88311(*)

\$85

Penetration Tip

*Specify calibration: K or E



Model 88312 features a threaded tip

1/4-20 threads

Miniature Connector

250 mm (10")

88312(*)

\$85

Threaded Tip

*Specify calibration: K or E

Shown smaller than actual size

Covered by U.S. and International patents and pending applications

Pipe Plug Probe

- ✓ Rugged 304SS Design with Strain Relief Spring
- ✓ Fiberglass Leads Protected with Steel Overbraiding
- ✓ Stripped Leads, Standard. SMPW Connectors, Optional
- ✓ 1/4 NPT Mountings
- ✓ Choice J, K, T or E Thermocouple Types
- ✓ Grounded, Ungrounded or Exposed Junctions

TC-(*)-NPT Series

\$34

Basic Unit



TC-K-NPT-U-72, \$39

Pipe Plug Probe With Ungrounded Junction, Stripped Wire Leads and Stainless Steel Overbraid Shown

Ordering Example: TC-K-NPT-G-72 is a grounded pipe plug probe with stripped leads, \$34

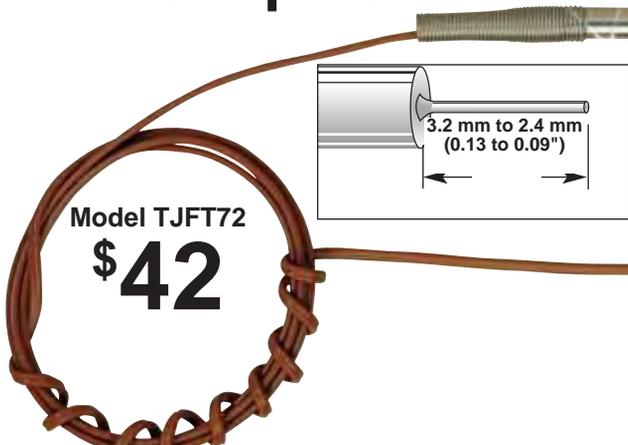
* Specify calibration: J, K, T or E
** Other lengths available, consult Sales Department
For exposed junction, replace G with E in model number, same price

For subminiature connector, add suffix "SMPW" and \$5 to price
For standard connector, add suffix "OSTW" and \$5 to price

1/4 and 1/8 NPT fitting — Single and Dual Thermocouple Configurations

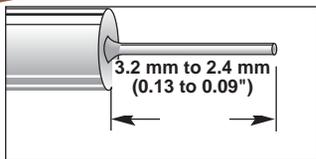
Fine Tip TJ Probe

All products shown smaller than actual size.



Model TJFT72

\$42



Fine tip transition joint thermocouple, 150 mm (6") long, with 304 SS sheath, 1/16" OD. Supplied with 1.8 m (6') PFA insulated wire with SMPW subminiature male connector. Tip has a 0.5 mm (0.020") diameter sensing mass.

* Specify calibration: J, K, T or E

** Specify sheath: SS (for 304 Stainless steel) or IN (for Inconel 600)

Consult sales for 316 SS sheath

Ordering Example: TJFT72-K-SS-116G-6-SMPW-M, type K, 304 SS sheath, \$42.

Miniature Connector

A-88

Specialty Thermocouple Probes

Low-Profile Penetration Probe

Model 88310(*)

\$50

*Specify calibration: K or E

6.4 mm (0.25")

MEETS OR EXCEEDS
SPECIAL LIMITS
OF ERROR (SLE)
AND EN 60584-2:
Tolerance Class 1

MADE IN
USA



This probe features a low-profile hypodermic tip and convenient handle for short depth penetration of soft materials such as rubber. A grounded junction, 300 mm (1') of retractable cable (which stretches to 1.5 m [5']) and a subminiature male connector are standard. The handle is rated to 162°C (325°F).

Molded Miniature Connector
Shown smaller than actual size

Autoclave Probe

This 1.6 mm (0.063") diameter 304SS probe, with stainless steel transition junction, is perfect for the food industry, steam washdown applications or general heavy duty use. It features 3.3 m (11') of 1.6 mm (0.062") mineral insulated coiled cable, 1 m (3') of PFA insulated thermocouple grade wire and a male subminiature connector.

6.4 mm (0.25") dia.

Shown smaller than actual size

100 mm (4")

TJ36-(*)-116G-6-ACL

\$92

Grounded Junction

*Specify calibration: J, K, T or E

TJ36-(*)-116U-6-ACL

\$92

Ungrounded Junction



Miniature Connector

6.4 mm (0.25") dia.

Coil can be stretched or compressed by hand

Epoxy Coated Tip Thermocouple

TC-PVC-(*)-24-180

\$16 each

Purchase PVC insulated thermocouples with epoxy sealed junction tip either singly or in a pack of five. Supplied in 4.5 m (15') lengths[†] per sensor with subminiature male window connector and 24 gage solid polyvinyl rip-cord wire. Maximum Temp rating of 105°C (221°F). Stripped leads available at \$40/5-pack.

Miniature Connector With Write-On-Window

5TC-PVC-(*)-24-180

\$50
pkg of 5

*Specify calibration: J, K, T or E



Shown smaller than actual size

All probes were designed for industrial, laboratory, manufacturing and chemical research only. They are not intended for medicinal use, or on humans. OMEGA Engineering, Inc. assumes no responsibility if these products are used for medicinal purposes, or on humans, or are misused in any way.

[†]Other lengths available, consult Sales Department

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