

High Reliability Sensors For Demanding Heat Treat Market

High temperature heat treating processes require temperature accuracy and consistency. Watlow provides the most precise temperature measurement devices in the industry. With over 75 years' experience in manufacturing specialized heat treating sensors, Watlow is vertically integrated and manufactures its own mineral insulated thermocouples. The company also insulates its own wire and controls uniformity to insure a highly accurate and reliable sensor. Watlow complies with the calibration requirements of AMS 2750-C specifications.

Watlow has full service lab services that include tensile, vibration, micro-hardness, compaction density liquid penetrant and radiographic inspection, along with a staff of qualified engineers to develop a heat solution to meet even the most challenging, unique requirements.

Applications

- Cryogenic
- Quenching
- Carbonizing
- High temperature
- Vacuum/vacuum brazing
- Salt baths
- Stress relieving
- Nitriding
- Annealing
- Hardening



Features and Benefits

End-to-end calibration

- Reliable batch processing

Material lot control

- Cost savings with reduced scrap

Vertical Integration

- Consistency

NIST traceable

- Accurate temperature measurements

Coil identification

- Cost savings with calibration off-sets

AMS 2750 - C capabilities

- Industry compliance

ISO-9001 compliance

- Complete quality system

Full laboratory testing in house

- Quick material analysis

Pre-aged thermocouples

- High accuracy measurements

Low drift insulations

- Long term measurements



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ISO 9001
Certified

RIC-HTS-100



Load Sensors



Ordering Information

Series 61 -
Up to 1300°F (704°C)

Diameter _____
X = Not applicable

Calibration _____
J = Type J
K = Type K
T = Type T

Lead Protection _____
P = Fiberglass (20 gauge solid) 900°F (482°C)
B = Fiberglass with SS overbraid
(20 gauge solid) 900°F (482°C)
J = Extruded FEP (20 gauge solid) 400°F (205°C)
F = Fiberglass (24 gauge solid) 900°F (482°C)
S = Fiberglass with SS overbraid
(24 gauge solid) 900°F (482°C)
7 = High temperature Fiberglass 1300°F (704°C)

Junction _____
E = Exposed

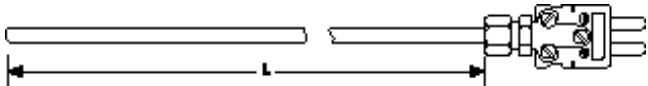
Enter X _____
Lead Length (inches) _____
Whole inches: 006 to 999

Terminations _____
A = Standard 2 1/2 inch split leads
D = Standard male plug, quick disconnect
E = Standard female jack, quick disconnect
F = Miniature male plug, quick disconnect

Note: Consult the factory for AMS-2750-C calibration.

Your Authorized Watlow Distributor Is:

Control Sensors



Ordering Information

High Temperature -
Up to 2700°F (1482°C)

Sheath O.D. (inch) _____
J = 0.250

Connector Type _____
A = Standard plug 400°F (205°C)
L = High temperature plug 1000°F (538°C)

Enter "0" _____

Insulation _____
Al₂O₃
Loose pack B

Sheath Material _____
B = Alumina
3 = Molybdenum

Sheath Length "L" (inch) _____
Whole inches: 01 to 99

Sheath Length "L" (fractional inch) _____
0 = 0 2 = 1/4 4 = 1/2 6 = 3/4
1 = 1/8 3 = 3/8 5 = 5/8 7 = 7/8

Junction _____
Ungrounded
Single U

Calibration _____
S
Standard limits S
Special limits 7

Enter "00" _____

Special Requirements _____
If none, enter "0". If required, consult factory

Note: Consult the factory for AMS-2750-C calibration.

United States Sales Offices: Atlanta/Greenville, (770)908-9164 • Austin, (512)249-1900 • Charlotte/Columbia, (704)541-3896 • Chicago, (847)458-1500 • Cincinnati, (513)398-5500 • Cleveland, (330)467-1423 • Dallas, (972)620-6030 • Denver, (303)798-7778 • Detroit, (248)651-0500 • Houston, (281)440-3074 • Indianapolis, (317)575-8932 • Kansas City, (913)897-3973 • Los Angeles, (714)935-2999 • Maryland/Virginia, (410)840-8034 • Minneapolis, (612)431-5700 • Nashville, (615)264-6148 • New England, (603)882-1330 • New York/New Jersey/Philadelphia, (215)345-8130 • New York, Upstate, (716)438-0454 • Orlando, (407)351-0737 • Phoenix, (602)708-1995 • Pittsburgh, (412)322-5004 • Portland, (503)245-9037 • St. Louis, (314)878-4600 • Sacramento, (707)425-1155 • San Diego, (760)728-9188 • San Francisco, (408)980-9355 • Seattle, (425)222-4090 • Tampa/St. Petersburg, (813)926-3600 • Tulsa, (918)496-2826 • Winston Salem/Raleigh, (336)766-9659 • Wisconsin, (414)723-5990

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