

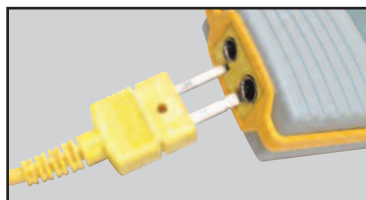
Thermocouple-to-Analog Connector/Converter

The Smart Connector™

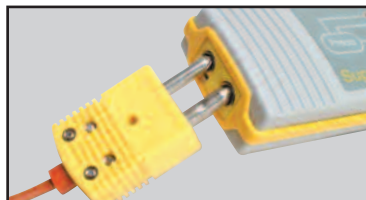
PATENTED
Covered by U.S. and
International Patents and
Pending Applications



The SMCJs Patented Design accepts both **Miniature** and **Standard** connectors or probes.



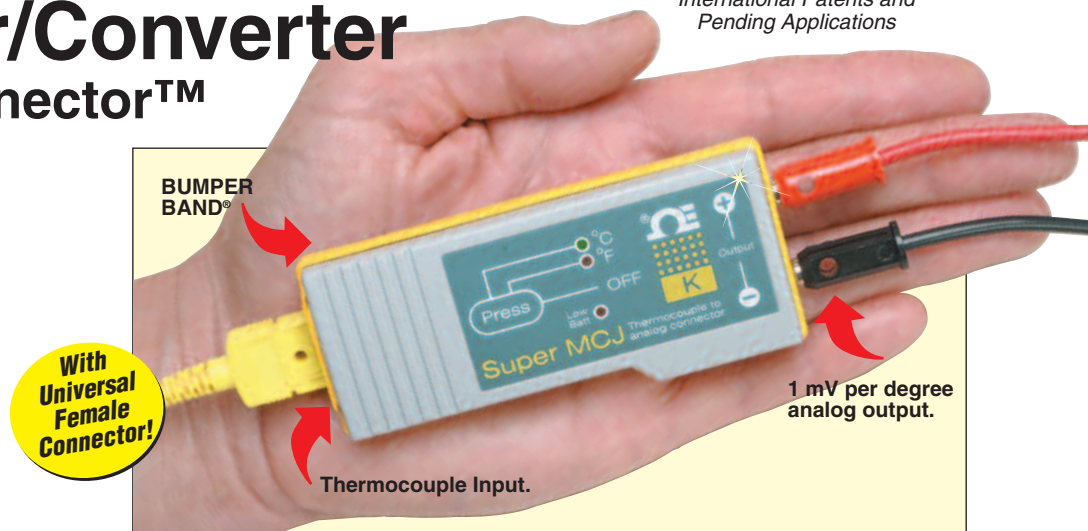
Miniature Connector (Type SMP).



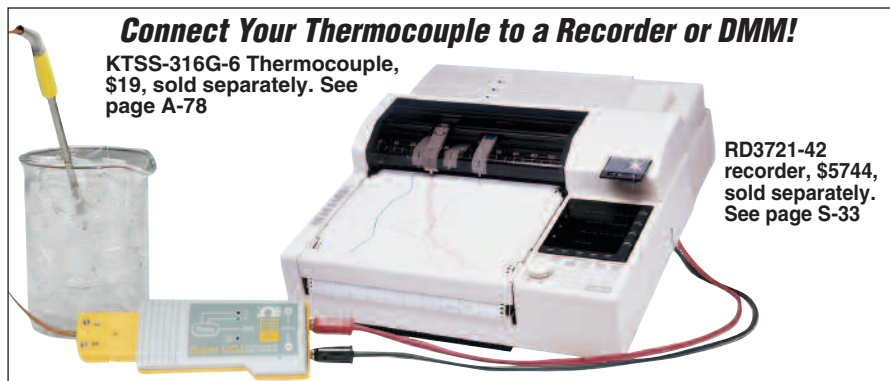
Standard Connector (Type OST).

- ✔ High Stability Electronics
- ✔ 1 mV/Degree Linear Output
- ✔ One-Button Operation
- ✔ °C/°F Switchable
- ✔ Lithium Battery Included
- ✔ Low Battery Indication
- ✔ Built-In EMI Shielding
- ✔ Thermocouple Break Indication
- ✔ Protective BUMPER BAND®

The SMCJ converts a thermocouple input signal to a cold junction compensated, linear, amplified analog output for use with DMMs, recorders, dataloggers and other electronic devices. The output from the SMCJ is a linear 1 mV/degree signal and is user switchable between °C and °F.



Shown smaller than actual size.



Specifications

Measuring Temperature Range:

- Type J: -100 to +750°C (-148 to +1382°F)
- Type K: -100 to +1250°C (-148 to +2282°F)
- Type T: -100 to +350°C (-148 to +662°F)

Accuracy @ 75°F Ambient

Temperature Across the Range:

- Type J: ±1.4°C (±2.5°F)
- Type K: ±3°C (±5°F)
- Type T: ±2°C (±3°F)

Output: 1 mV/°F or °C

Input Impedance: 3 MΩ

Output Load: 1 kΩ min

Power: One AA size lithium battery, 3.6 Vdc, 1900 mAH (included)

Battery Life: 1440 hrs (60 days) of continuous operation (no load)

Low Battery Indication: Red LED flashes once a second

Response Time: (0 to 63% of final value): 150 msec

Operating Temperature: 0 to 50°C (-18 to 122°F)

Dimensions: 100 L x 50 W x 25 mm H (4 x 2 x 1")

Weight: 67 g (2.4 oz)

To Order

Model Number	Price	Thermocouple Input Type	Temperature Range	
			°C	°F
SMCJ-J	\$97	J Iron-Constantan	-100 to 750	-148 to 1382
SMCJ-K	97	K CHROMEGA®-ALOMEGA®	-100 to 1250	-148 to 2282
SMCJ-T	97	T Copper-Constantan	-100 to 350	-148 to 662

Accessories

Model Number	Price	Description
OM-NOMAD-BATT	\$12	Replacement battery
SMCJ-CAB	20	Cable wire (red and black) 1 m long (3')

Comes complete with mating miniature male thermocouple connector, BUMPER BAND®, one "AA" battery and operator's manual. **Note:** Red and Black output cable set is sold separately.

Ordering Example: SMCJ-J; J calibration analog converter and SMCJ-CAB cable wire \$97 + 20 = \$117.