

Thermocouple-to-Analogue Connector/Converter

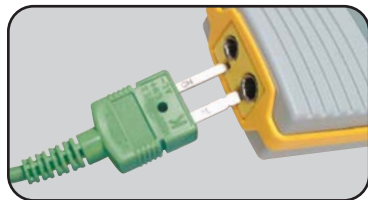
The Smart Connector™

SMCJ Series

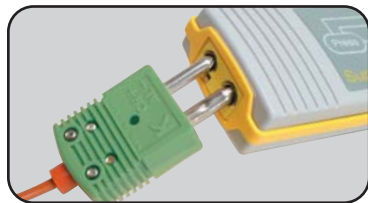
£65



The SMCJ's Patented Design accepts both **Miniature** and **Standard** (shown) thermocouple plugs.



Miniature Plug (SMW)
(Type K shown).



Standard Plug (OSW).



Universal Socket.

- ✓ 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 analogue output for use with DMM's, 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.

PATENTED

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

Universal Thermocouple Socket



1 mV per degree analogue output.

Connect Your Thermocouple to a Recorder or DMM!

KTSS-IM45G-150
Thermocouple, £12.75.
Sold separately,
see omega.co.uk



RD3722-12,
recorder, £1250,
sold separately,
see omega.co.uk

Specifications

Measuring Temperature Range:

Type J: -100 to +750°C

Type K: -100 to +1250°C

Type T: -100 to +350°C

Accuracy @ 24°C Ambient

Temperature Across the Range:

Type J: ±1.4°C

Type K: ±3°C

Type T: ±2°C

Output: 1 mV/°F or °C

Input Impedance: 3M Ω

Output Load: 1 K Ω min

Power: 1 "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

Dimensions: 25 H x 50 W x 100 mm L

Weight: 67 g

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Thermocouple Input Type	Temperature Range	
			°C	°F
SMCJ-J	£65	J Iron-Constantan	-100 to 750	-148 to 1382
SMCJ-K	65	K CHROMEGA®-ALOMEGA®	-100 to 1250	-148 to 2282
SMCJ-T	65	T Copper-Constantan	-100 to 350	-148 to 662

Accessories

Model No.	Price	Description
OM-NOMAD-BATT	£8.00	Replacement battery
SMCJ-CAB	13.50	Cable wire (red and black) 1 m long

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

Ordering Example: **SMCJ-K**, J calibration analogue converter and **SMCJ-CAB**, cable wire, £65 + 13.50 = £78.50.

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters