

# Universal Thermocouple Connector

## Direct USB to PC Connection



### UTC-USB



Includes 1.8 m (6')  
USB cable.



Shown actual size.

- ✓ For J, K, T, E, R, S, B, C and N Thermocouples
- ✓ Built-In Cold Junction Compensation and Linearization
- ✓ Accepts Both Standard and Miniature Connectors
- ✓ Includes Free TRH Central Software for Display, Data Logging and Chart Recording
- ✓ RoHS 2 Compliant

The UTC-USB universal thermocouple connector accepts the signal from any of 8 thermocouple types, and lets you display actual temperature readings on your PC, through a standard USB port. The UTC-USB provides automatic cold junction compensation and linearization; the free downloadable software lets you select the thermocouple type and units, and then use your PC as a meter, chart recorder or data logger.

The UTC-USB features Omega's universal input connection, so you can quickly attach both standard and miniature size thermocouple connectors. A standard USB cable is included for fast hook-up to your PC.

### Specifications

#### Thermocouple (TC) Input

User Selectable: J, K, T, E, R, S, B, C or N

#### Measurement Accuracy:

**Type J, K:** ±0.5% of reading or ±1.0°C (1.8°F), whichever is greater

**Type T, E, N:** ±0.5% of reading or ±2.0°C (3.6°F), whichever is greater

**Type R, S, B, C:** ±0.5% of full scale

#### Measurement Resolution:

1°C (1°F)

#### Cold Junction Compensation

(Automatic): -10 to 70°C  
(14 to 158°F)

#### Thermocouple Connection:

Patented universal female accepts both standard or miniature male connector

**USB Connection:** Version 1.0, 1.1 and 2.0 compatible; mini-B connector; 1.8 m (6') cable included

#### Operating Environment:

-10 to 70°C (14 to 158°F)

**Computer Interface:** USB (one interface cable included with receiver)

**Software (Free Download from OMEGA):** Requires Windows® 2000, XP, VISTA (32-bit) or Windows 7 (32-bit)

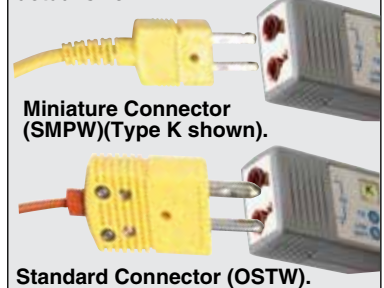
**Dimensions:** 76 L x 25.4 W x 13 mm H  
(3 x 1 x 0.5")

**Enclosure:** Plastic (glass filled nylon)



Laptop not included.

Shown smaller than  
actual size.



Miniature Connector  
(SMPW)(Type K shown).

Standard Connector (OSTW).

| Type | Range, °C      | Range, °F      | Accuracy                   |
|------|----------------|----------------|----------------------------|
| J    | -100 to 760°C  | -148 to 1400°F | ±0.5% rdg or ±1°C (1.8°F)* |
| K    | -100 to 1260°C | -148 to 2300°F | ±0.5% rdg or ±1°C (1.8°F)* |
| T    | -200 to 400°C  | -328 to 752°F  | ±0.5% rdg or ±2°C (3.6°F)* |
| E    | -200 to 1000°C | -328 to 1832°F | ±0.5% rdg or ±2°C (3.6°F)* |
| R    | 260 to 1760°C  | 500 to 3200°F  | ±0.5% FS                   |
| S    | 260 to 1760°C  | 500 to 3200°F  | ±0.5% FS                   |
| B    | 870 to 1820°C  | 1598 to 3308°F | ±0.5% FS                   |
| C    | 0 to 2315°C    | 32 to 4199°F   | ±0.5% FS                   |
| N    | -100 to 1260°C | -148 to 2300°F | ±0.5% rdg or ±2°C (3.6°F)* |

\* Whichever is greater and related accuracy impacted by EMC.

### Free Thermocouple Included!

Each connector includes a free 1 m (40") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy.

#### Order a Spare!

Model No. **SC-GG-K-30-36**,  
(subminiature connector).  
Model No. **LSC-GG-K-24-36**,  
(standard connector).



### To Order

| Model No.            | Description   |
|----------------------|---|
| <b>UTC-USB</b>       | Universal thermocouple connector with USB connection              |
| <b>UWTC-CABLE</b>    | Replacement USB cable, 1.8 m (6')                                 |
| <b>SC-GG-K-30-36</b> | Spare Type-K beaded wire thermocouple with subminiature connector |

Comes complete with USB cable, and a Type K beaded wire thermocouple.  
Free TRH central software available for download from Omega.

**Ordering Example:** UTC-USB, universal thermocouple connector with USB connection.