

# USB Thermocouple Probe

## With Free Recording and Logging Software

### TJ-USB Series



Optional

- ✓ Connects Directly to a USB Port on Your Computer
- ✓ Free TRH Central Software Available for Download from OMEGA Converts Your PC into a Temperature Meter, Data Logger or Chart Recorder
- ✓ Available "Off-the-Shelf" in Two Different Measurement Ranges
- ✓ 457 and 610 mm (18 and 24") Probe Lengths Standard
- ✓ Available in 4.5 or 6 mm ( $\frac{3}{16}$  or  $\frac{1}{4}$ ") Diameter 304 SS, Inconel® and High Performance Super OMEGACLAD® XL Sheaths

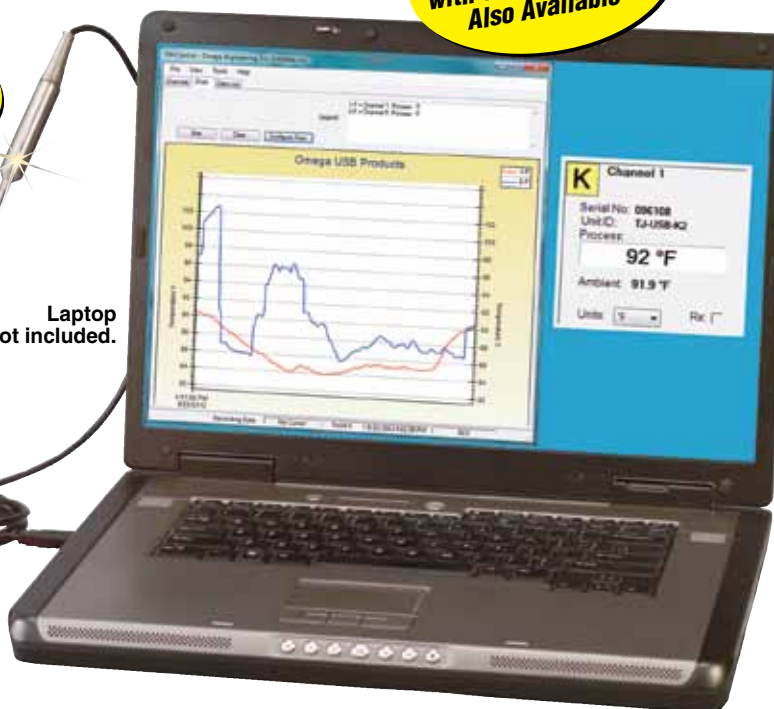
OMEGA's TJ-USB Series of thermocouple probes with direct USB connection feature a rugged transition joint construction, 2 m (6') of shielded output cable and free user software that converts your PC into a temperature meter, chart recorder or data logger. Probes are available off-the-shelf in 18 or 24" lengths and with 0.187 or 0.250" 304 stainless steel, Inconel® or high performance Super OMEGACLAD® XL sheathing.

Relative Humidity Probe with USB Connection Available



TJ-USB-CASS-316-18-K1 shown smaller than actual size.

Laptop not included.



Infrared Probe with USB Connection Also Available

### Specifications

**Integral Thermocouple:** Type K (ungrounded)

**Measurement Range:**

- K1: -73 to 315°C (-100 to 600°F)
- K2: -200 to 1000°C (-328 to 1832°F)

**Note:** For 304 stainless steel max temperature is 850°C (1562°F)

**Accuracy:**

- K1: ±1°C (1.8°F)
- K2: ±3°C (5.4°F)

**Resolution:**

- K1: 0.1°
- K2: 1°

**Stability:**

- K1: ±0.25°C
- K2: ±0.5°

**Cold Junction Compensation (Automatic):** -10 to 70°C

**Operating Environment (Cold End):** -10 to 70°C, 0 to 95% relative humidity (non-condensing)

**PC Interface:** USB

**USB Cable:** Integral to probe, 2 m (6') (shielded) Type A plug

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

**Weight:** 70 g (2.5 oz)

### To Order

Model No.	Description
TJ-USB-CASS-(*)-(**)-K1	304 SS transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-CASS-(*)-(**)-K2	304 SS transition joint probe -200 to 850°C (-328 to 1562°F)
TJ-USB-CAIN-(*)-(**)-K1	Inconel transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-CAIN-(*)-(**)-K2	Inconel transition joint probe -200 to 1000°C (-328 to 1832°F)
TJ-USB-KQXL-(*)-(**)-K1	Nickel-chrome transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-KQXL-(*)-(**)-K2	Nickel-chrome transition joint probe -200 to 1000°C (-328 to 1832°F)
RH-USB	Humidity/temperature probe with USB
HX70-MKIT	Wall/duct mounting kit for RH-USB
CAL-3	NIST traceable calibration with 3 data points

\*Insert "316" for 4.5 mm (0.187" diameter sheath) or "14" for 6 mm (0.250" diameter sheath).

\*\*Insert "18" for 457 mm (18" probe length) or "24" for 610 mm (24" probe length).

**Ordering Examples:** TJ-USB-CASS-14-24-K1, heavy-duty USB TJ probe, 304 SS sheath, 6 mm ( $\frac{1}{4}$ ") OD, 610 mm (24") long with integral USB cable and Type A connector, -73 to 315°C (-100 to 600°F) temperature range.

TJ-USB-KQXL-316-18-K2, heavy-duty USB TJ probe, Nickel-Chrome sheath, 4.5 mm ( $\frac{3}{16}$ ") OD, 457 mm (18") L with integral USB cable and Type A connector, -200 to 1000°C (-328 to 1832°F) temperature range.