

# Wireless Transmitter Enclosure

## Wash-Down, Sanitary and Marine Applications

### For MWTC Miniature Wireless Thermocouple Connectors

#### MWTC-NEMA Series



MWTC-NEMA, empty casing, shown smaller than actual size.

- ✓ Compact Polypropylene Enclosure
- ✓ NEMA 4X (IP65) Protection
- ✓ Rugged, Splash-Proof Design
- ✓ Available for 1/8" to 1/4" or 3 to 6 mm OD Thermocouple Probes

With the MWTC-NEMA enclosure, you can now measure temperature wirelessly, in almost any environment! Simply insert your thermocouple probe through the compression fitting, attach your MWTC miniature wireless thermocouple connector, tighten, and you're ready. The MWTC-NEMA can be used with metal-sheathed quick disconnect thermocouples from 1/8" to 1/4" (3 to 6 mm) OD probes. OMEGA offers thermocouples with a variety of sheath materials, including 304 SS, 316 SS, Inconel® and OMEGA CLAD® XL.

The MWTC wireless thermocouple connector transmits the probe temperature up to 90 m (300') away, at user-programmed intervals from 2 sec to 2 min. Available for 9 thermocouple calibrations, the MWTC is accurate to ±0.5% (depending on the calibration), and the easy to use software turns your PC into a multi-channel chart recorder or data logger. Your data can even be exported to a spreadsheet, for later analysis.

#### Specifications

- Environmental Rating:** NEMA 4X (IP65), protection from dust and splashing water
- Housing Material:** Polypropylene plastic
- Dimensions:** 140 L x 38 mm dia (5.5 x 1.5"); housing/compression fitting requires 1.25" of probe length
- Temperature Rating:** -10 to 70°C (14 to 158°F), limited by MWTC wireless connector

#### MWTC-NEMA Exploded View

Shown smaller than actual size.

Compression fitting included.

MWTC-D-K wireless connector.

Note: Thermocouple probe and MWTC wireless thermocouple connector/transmitter sold separately.

KQSS-18G-18, standard quick disconnect probe.

To Order	
Model No.	Description
<b>Standard</b>	
MWTC-NEMA-18	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 1/8" dia. probes
MWTC-NEMA-316	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 3/16" dia. probes
MWTC-NEMA-14	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 1/4" dia. probes
<b>Metric</b>	
MWTC-NEMA-M30	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 3.0 mm dia. probes
MWTC-NEMA-M45	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 4.5 mm dia. probes
MWTC-NEMA-M60	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 6.0 mm dia. probes

Ordering Example: MWTC-NEMA-18 enclosure, with MWTC-D-K-915 miniature wireless connector for Type K thermocouples (915 MHz RF frequency), with KQSS-18G-18. Type K thermocouple, 1/8" OD 304 SS sheath, grounded junction, 18" length (16.75" usable length).