

---

## UWTC-1/UWTC-2/NEMA Serial Command Reference:

Note: All commands sent to the UWTC series connector/transmitters must be terminated by a carriage return or carriage return and linefeed, and is shown in this document as “<sup>C</sup><sub>R</sub>” and “<sup>L</sup><sub>F</sub>”. Any parameters shown in square brackets “[ ]” are optional. Parameters are separated from commands and from each other by a space “ ”. Spaces within commands are shown in this document as “<sup>S</sup><sub>P</sub>”. All commands are case insensitive, meaning any combination of upper/lower case characters are accepted.

The USB connection appears on the PC as a virtual serial COM Port (VCP). The PC running a terminal program (such as HyperTerminal) must have the following serial communication settings:

Baud: 9600  
Data Bits: 8  
Parity: None  
Stop Bits: 1  
Flow Control: None

In order to communicate with the UWTC connector/transmitter via the USB/VCP, First plug the USB cable into a USB port on the PC and the other end into the connector on the UWTC. While pressing and holding the “ON/OFF” button, press and release the “SETUP” button. Then release the “ON/OFF” button. The Green “TX” LED should be blinking.

---

### C Command:

**Description:** - Report current probe temperature in Deg C.

**Syntax:** C<sup>C</sup><sub>R</sub> [<sup>L</sup><sub>F</sub>]

**Parts:** None. There are no parameters for this command.

**Remarks:** If the thermocouple is open, or not connected, a value of “9999” will be reported.

**Example:**

Assuming probe temperature is 125 °C, the following is shown on the PC (terminal) screen after typing “C” and “Enter”:

```
C  
125
```

---

### F Command:

**Description:** - Report current probe temperature in Deg F.

**Syntax:** F<sup>C</sup><sub>R</sub> [<sup>L</sup><sub>F</sub>]

**Parts:** None. There are no parameters for this command.

**Remarks:** If the thermocouple is open, or not connected, a value of “9999” will be reported.

**Example:**

Assuming probe temperature is 257 °F, the following is shown on the PC (terminal) screen after typing “F” and “Enter”:

```
F  
257
```

---

---

**ENQ Command:**

**Description:** - Report the product ID and firmware version.

**Syntax:** ENQ <sup>C<sub>R</sub></sup> [<sup>L<sub>F</sub></sup>]

**Parts:** None. There are no parameters for this command.

**Remarks:**

The firmware version is a six-digit number

**Example:**

The following is shown on the PC (terminal) screen after typing "ENQ" and "Enter":

```
UWTC2
070925
```

---

**TCTYPE Command:**

**Description:** - Set/report the thermocouple type.

**Syntax:** TCTYPE [<sup>S<sub>P</sub></sup> TYPE] <sup>C<sub>R</sub></sup> [<sup>L<sub>F</sub></sup>]

**Parts:**

TYPE (OPTIONAL)

Specifies the thermocouple type to be used with the UWTC connector/transmitter.  
Valid range of values is {B, C, E, J, K, N, R, S, and T}. The default value is 'K'.

**Remarks:**

If TYPE is omitted, the currently selected thermocouple type will be reported.

**Example:**

The following is shown on the PC (terminal) screen after typing "TCTYPE" and "Enter":

```
TCTYPE
TC = K
```

The following is shown on the PC (terminal) screen after typing "TCTYPE J" and "Enter":

```
TCTYPE J
TC = J
```

---

---

**INTERVAL Command:**

**Description:** - Set/report the time interval between readings.

**Syntax:**            **INTERVAL**[<sup>S</sup><sub>P</sub> **TIME**]<sup>C</sup><sub>R</sub> [<sup>L</sup><sub>F</sub>]

**Parts:**

TIME (OPTIONAL)

Specifies the amount of time in seconds between readings/transmissions from the UWTC connector/transmitter. Valid range of values is 2 to 255. The default value is 5.

**Remarks:**

If TIME is omitted, the currently set interval will be reported. Short intervals will deplete the battery much sooner than longer intervals. To maximize battery life, an interval should be chosen that is as large as your application can tolerate.

**Example:**

The following is shown on the PC (terminal) screen after typing "INTERVAL" and "Enter":

```
INTERVAL  
I = 5
```

The following is shown on the PC (terminal) screen after typing "INTERVAL 10" and "Enter":

```
INTERVAL  
I = 10
```

---