

## The CellTerra™ Wireless Transmission Unit (WTU)



The CellTerra™ WTU is a rugged versatile two-way wireless communication and control device. The CellTerra™ WTU can even aggregate field devices. The CellTerra WTU interfaces to the remote device or asset, establishes network connection, transmits and receives data and control commands, and monitors and sends alarms.

### Power Input:

Base - 5.5 to 60 VDC Optional - 115VAC/220VAC with external power supply

### Power Save Feature

Software controlled "sleep mode" which minimizes power draw

### Dimensions

Inches - 2.5H x 4W x 5L

### Weight

Approximately 1.5lbs without battery

### Temperature Ranges

-20°C to +60°C (operating)  
-40°C to +70°C (storage)

### Battery Backup

Optional

### Communication

Cellular  
Radio Frequency (RF)  
Satellite

### Location

Optional Geo Positioning Satellite (GPS)

**16 bit resolution jumper selectable A/D** (any 4 of the following)

- 4 - 20mA
- 0 - 5VDC

**10 bit resolution jumper selectable\* A/D** (any 10 of the following)

- 4 - 20mA (maximum 5)
- 0 - 5VDC
  - Digital Input
  - Digital Output

**Optically Isolated - Fixed**

**LED's** (any 3 of the following)

- Digital Input
- Digital Output
- LED's

### 2 External Interrupts

#### Memory

Base - 32K (expandable to 128K on base board)  
Additional memory available on optional auxiliary boards)

### Communication Ports

 (2 total ports available)

2 RS-232 ports or 1 RS-232 and 1 RS-485 ports

### Communication Link

Optional - IR Port

### Enclosure Rating

No rating (base)  
Nema 4X/IP65 (optional)

### Enclosure Material

#A380 Aluminum in natural gray finish on NEMA 4X enclosure

### Expansion Bus

12C bus for optional auxiliary boards

### Optional Auxiliary Boards

Memory  
Analog Inputs  
Digital Inputs  
RS-232/RS248 ports  
Analog Outputs  
Digital Outputs

### I/O Protection

Optional - Four (4) Optically isolated Digital inputs

### A/D Resolution

Typical 0.1 - 0.3%

\* These circuits are jumper selectable between current loop and voltage. If voltage is selected, then the lines can be set programmatically to either digital input or

- 4 Digital Inputs

**Non-Isolated Programmable**† (any 12 of the following)

- Digital Input
- Digital Output

digital output. The lines cannot be set programmatically if current loop is selected.

† Up to 7 of these lines can be used for time capture and value comparator functions