

WT4-19 Installation and Operating Instructions **SmartBob II Wireless System, NEMA 4X Modem**

INSTALLATION

1. Mount the WT4-19 in a place that gives its antenna a clear line-of-sight path to the other wireless unit it will be communicating with. It should be mounted at a good height above ground with its antenna vertical. **CAUTION:** To provide a degree of lightning protection, the WT4-19 should not be the highest point on a structure.
2. Wire power to the unit in accordance with the National Electrical Code and any applicable local codes. Required power to the unit is 115VAC 60Hz, with a current draw of approximately 0.1 amperes. Refer to the wiring label inside the WT4-19 cover.
3. Connect the RS485 cable to the appropriate terminals on the WT4-19 printed circuit board. **IMPORTANT:** The RS485 network is a polarized (+/-) system. Take care to maintain consistent polarity of the RS485 wires throughout your installation.
4. Set the jumper on the WT4-19 circuit board for the correct termination of the RS485 line. **IMPORTANT:** Only ONE termination at one end of the RS485 line should be set to the ON position. If the SmartBob SBR11 sensor at the end of the RS485 line has its termination set to ON, then the WT4-19 termination should be set to OFF. If none of the SBR11 sensors have their termination set to ON, all OFF, then the termination on the WT4-19 should be set to ON.

OPERATION

1. There is a power indicator LED on the power supply circuit board of the WT4-19. This RED LED should be on steady whenever power is applied.
2. A power switch is located on the modem unit itself near the DB9 connector. This switch must be in the ON (up) position
3. Whenever the WT4-19 is powered-up, a boot-up sequence takes place. You must wait for the boot-up to complete before attempting to operate the system. This takes about 10 seconds.
4. There are three LED indicators on the modem unit itself, located next to the DB-9 connector. The Red (bottom) LED indicates power to the modem and blinks during transmit. The Green (middle) LED indicates data coming into the modem on its serial port. The yellow (top) LED indicates data going out of the modem on its serial port.
5. The wireless transceiver does not require any other operator actions for operation.

