

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

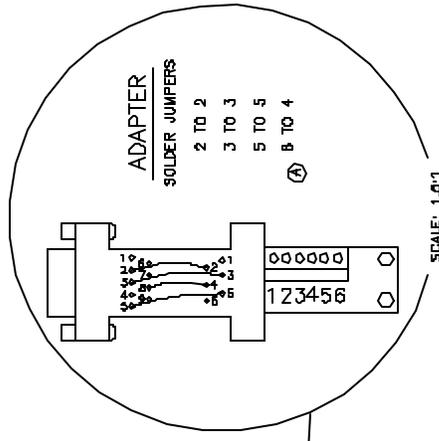
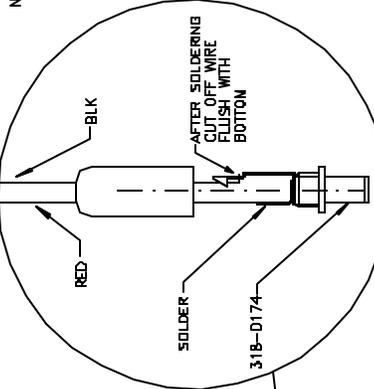
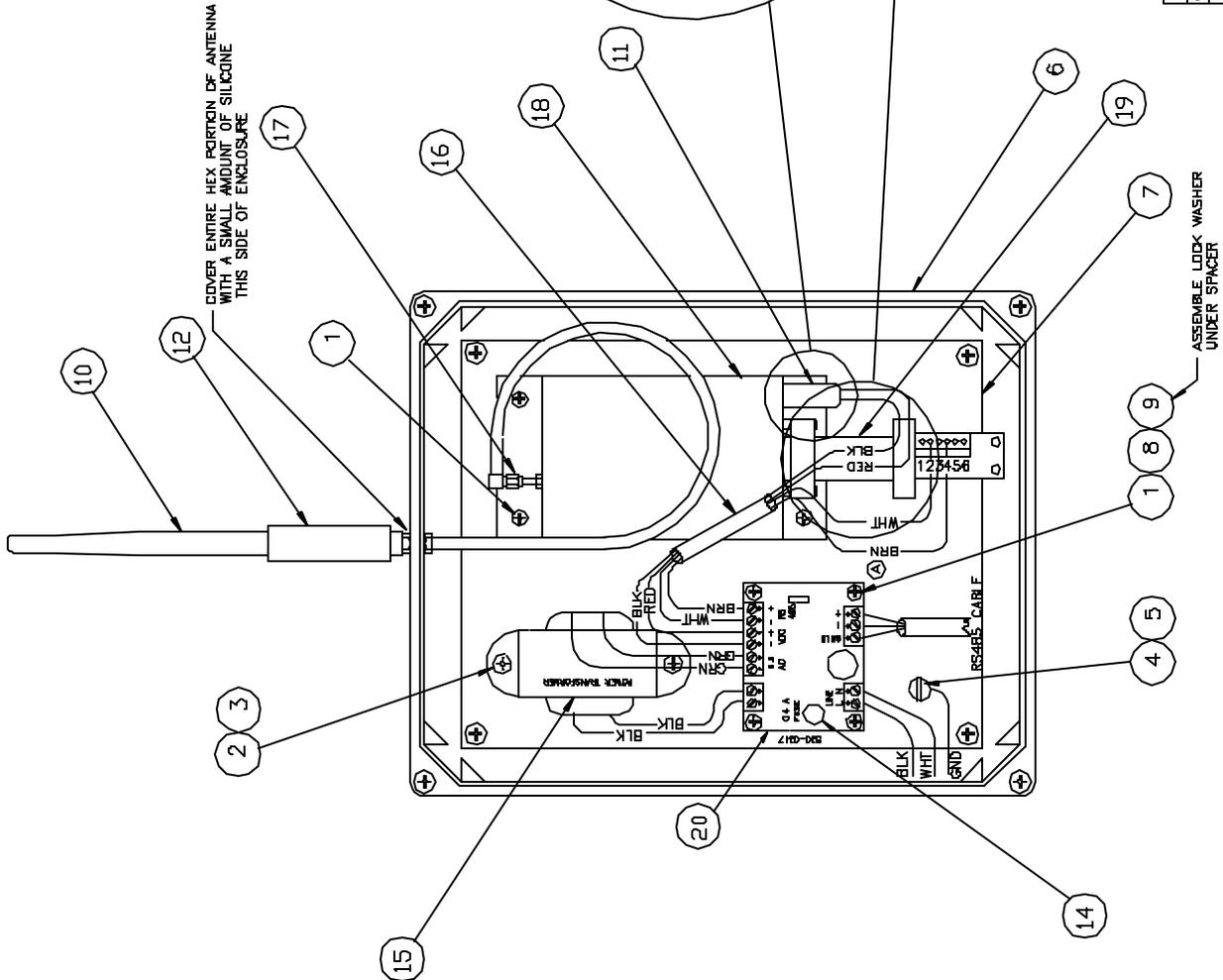
1. There is a power indicator LED on the power supply circuit board of the WT4-19. This RED LED should be on steady whenever power is applied.
2. A power switch is located on the modem unit itself near the DB9 connector. This switch must be in the ON (up) position
3. Whenever the WT4-19 is powered-up, 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.



BILL OF MATERIAL

ITEM NO	PART NUMBER	DESCRIPTION	NO REQ'D	MATERIAL
1	110-0002	SCREW, #8	8	
2	110-0007	SCREW, #8	2	
3	145-1008	WASHER, #8	2	
4	145-8003	CUP WASHER, #6-#10	1	
5	175-0012	SCREW, #8, GRN GROUND	1	
6	220-0340	ENCLOSURE	1	
7	265-0219	PANEL	1	
8	290-0083	SPACER	4	
9	445-4008	WASHER, #6	4	
10	303-0007	ANTENNA	1	
11	318-0174	POWER PLUG	1	
12	338-0083	TUBING, SHRINK	.25 FT	
13				
14	328-0016	FUSE, 400A	1	
15	398-0042	TRANSFORMER	1	
16	398-0087	CABLE, 3 CONDUCTOR	.833	
17	398-0531	CABLE, ANTENNA	1	
18	330-0419	RADIO MEDIUM	1	
19	530-0346	ADAPTER	1	
20	330-0317	PCB, POWER SUPPLY	1	

COVER ENTIRE HEX PORTION OF ANTENNA WITH A SMALL AMOUNT OF SILICONE THIS SIDE OF ENCLOSURE



NOTES:
 1. CENTER NAMEPLATE P/N 260-071 (LEFT TO RIGHT) DOWN 1.00 FROM TOP
 2. CENTER WIRE LABEL P/N 255-052 ON INSIDE OF COVER (LEFT TO RIGHT AND TOP TO BOTTOM)

DIMENSIONS ARE NOT ACCUMULATIVE

ECO-230802	DB	13	13-27-20
REV	REVISION	DATE	APPROVED
1	ISSUES INCORPORATED	DESIGNED	DESIGNED
2	ISSUES INCORPORATED	DESIGNED	DESIGNED
3	ISSUES INCORPORATED	DESIGNED	DESIGNED
4	ISSUES INCORPORATED	DESIGNED	DESIGNED
5	ISSUES INCORPORATED	DESIGNED	DESIGNED
6	ISSUES INCORPORATED	DESIGNED	DESIGNED
7	ISSUES INCORPORATED	DESIGNED	DESIGNED
8	ISSUES INCORPORATED	DESIGNED	DESIGNED
9	ISSUES INCORPORATED	DESIGNED	DESIGNED
10	ISSUES INCORPORATED	DESIGNED	DESIGNED
11	ISSUES INCORPORATED	DESIGNED	DESIGNED
12	ISSUES INCORPORATED	DESIGNED	DESIGNED
13	ISSUES INCORPORATED	DESIGNED	DESIGNED
14	ISSUES INCORPORATED	DESIGNED	DESIGNED
15	ISSUES INCORPORATED	DESIGNED	DESIGNED
16	ISSUES INCORPORATED	DESIGNED	DESIGNED
17	ISSUES INCORPORATED	DESIGNED	DESIGNED
18	ISSUES INCORPORATED	DESIGNED	DESIGNED
19	ISSUES INCORPORATED	DESIGNED	DESIGNED
20	ISSUES INCORPORATED	DESIGNED	DESIGNED