

# WT4-9 Installation and Operating Instructions

## SmartBob II Wireless System, NEMA 4X Unit

### INSTALLATION

1. Mount the WT4-9 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 WT4-9 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 WT4-9 cover.
3. Connect the RS485 cable to the appropriate terminals on the WT4-9 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 WT4-9 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 WT4-9 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 WT4-9 should be set to ON.

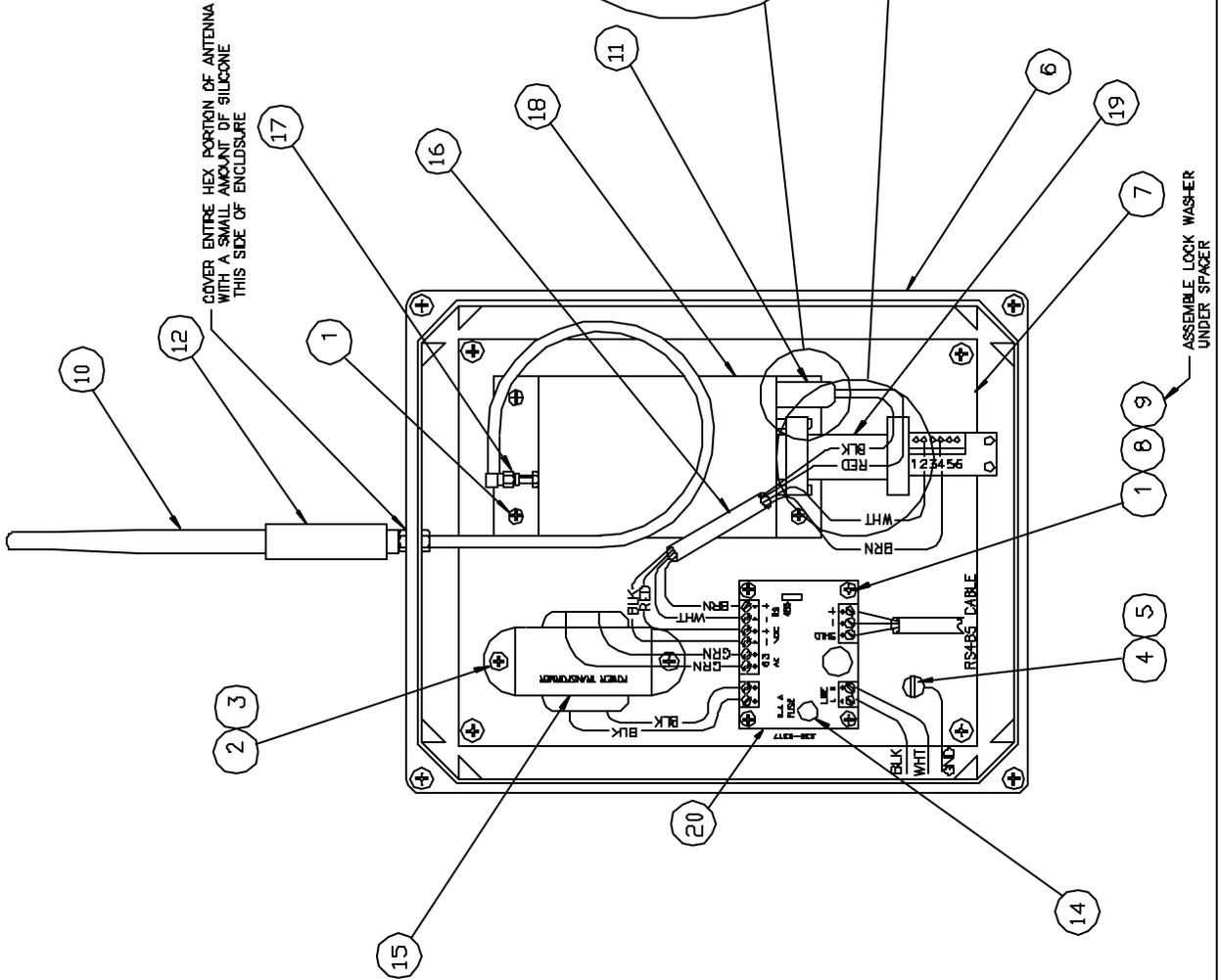
### OPERATION

1. There is a power indicator LED on the power supply circuit board of the WT4-9. This RED LED should be on steady whenever power is applied.
2. Whenever the WT4-9 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.
3. There are two LED indicators on the radio transceiver unit itself. These are located next to the DB-9 connector. The red LED should be on whenever power is applied. When the radio transmits data, this red LED will blink off. The yellow LED blinks on whenever data is received by the radio. These LED's are good troubleshooting aids.
4. The wireless transceiver does not require any other operator actions for operation.

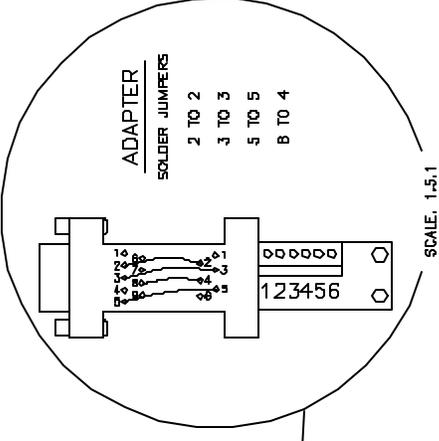
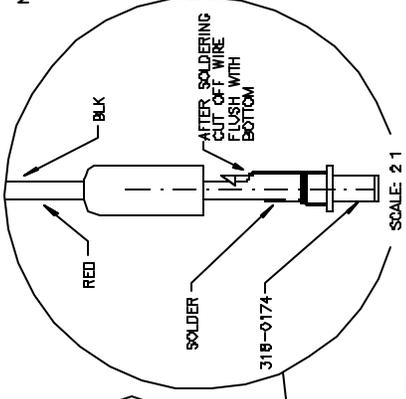


**BILL OF MATERIAL**

ITEM NO.	FART NUMBER	DESCRIPTION	NO REQ'D	MATERIAL
1	110-0002	SCREW, #6	6	
2	110-0007	SCREW, #8	2	
3	145-1008	WASHER, #8	2	
4	145-0003	CUP WASHER, #6-f10	1	
5	175-0012	SCREW, #8, GRN GROUND	1	
6	220-0340	ENCLOSURE	1	
7	265-0219	PANEL	1	
8	E90-0069	SPACER	4	
9	145-1002	WASHER, #6	4	
10	303-0007	ANTENNA	1	
11	318-0174	POWER PLUG	1	
12	330-0083	TUBING, SHRINK	25 FT	
13				
14	328-0006	FUSE, 400A	1	
15	388-0042	TRANSFORMER	1	
16	398-0087	CABLE, 5 CONDUCTOR	.B33	
17	398-0533	CABLE, ANTENNA	1	
18	530-0345	RADIO MODEM SWITCHABLE	1	
19	530-0346	ADAPTER	1	
20	530-0317	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 260-0171 (LEFT TO RIGHT)  
 2. CENTER WIRE LABEL P/N 855-0052 ON CENTER OF ADAPTER (LEFT TO RIGHT AND TOP TO BOTTOM)

**DIMENSIONS ARE NOT ACCUMULATIVE**

UNLESS OTHERWISE NOTED	DESIGNED	APPROVED	DATE
1. DIMENSIONS TO UNLESS OTHERWISE NOTED	DAVID	9.15	11-18-98
2. TOLERANCES UNLESS OTHERWISE NOTED	DAVID		
3. FINISH UNLESS OTHERWISE NOTED	DAVID		
4. MATERIAL UNLESS OTHERWISE NOTED	DAVID		
5. FINISH UNLESS OTHERWISE NOTED	DAVID		
6. DRAWING UNLESS OTHERWISE NOTED	DAVID		

TITLE: ASST DRAWING  
 WIRELESS WPT-B  
 LOW TEMP  
 DWG NO: 530-0317  
 DESIGNED BY: DAVID  
 CHECKED BY: DAVID  
 DATE: 11-18-98  
 4200 NORTH 48TH STREET  
 LINCOLN NEBRASKA 68504  
 DO NOT SCALE DRAWING  
 P/N: 53004-22