

WT4-19D Installation and Operating Instructions

NEMA 4X Unit, Directional Wireless Modem

INSTALLATION

1. Mount the WT4-19 in a place that gives its antenna a clear line-of-sight path to the other wireless modem it will be communicating with. It should be mounted at a good height above ground with its antenna elements in a vertical orientation. Vertical orientation is shown in Figure A on the CUSHCRAFT PC YAGI's instruction sheet enclosed with the antenna. **CAUTION:** Direct grounding of the antenna is important for lightning protection. Proper system grounding technique is described in the CUSHCRAFT PC YAGI's instruction sheet enclosed with the antenna.
2. Attach the cable from the antenna to the cable coming from the WT4-19D enclosure. Be sure the connection is tight. If exposed to weather, this connection should be water proofed after the installation has been tested for proper operation. A common silicone sealant applied externally or self-fusing silicone wrap is suitable. Allow a small drip loop near the cable entry in the enclosure.
3. Wire power to the WT4-19D 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 WT4-19D cover.
4. Connect the RS485 cable to the appropriate terminals on the WT4-19D printed circuit board. **IMPORTANT:** The RS485 network is a polarized (+/-) system. Take care to maintain consistent polarity of the RS485 wires throughout your installation.
5. Set the jumper on the WT4-19D 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 WT4-19D 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 WT4-19D should be set to ON.

OPERATION

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

927-0225 Rev B

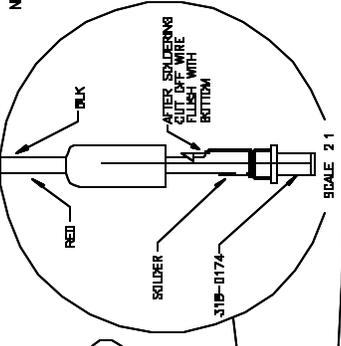
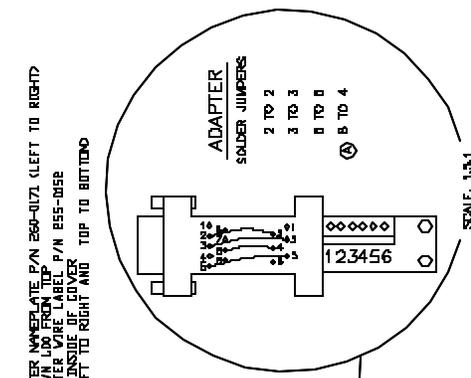
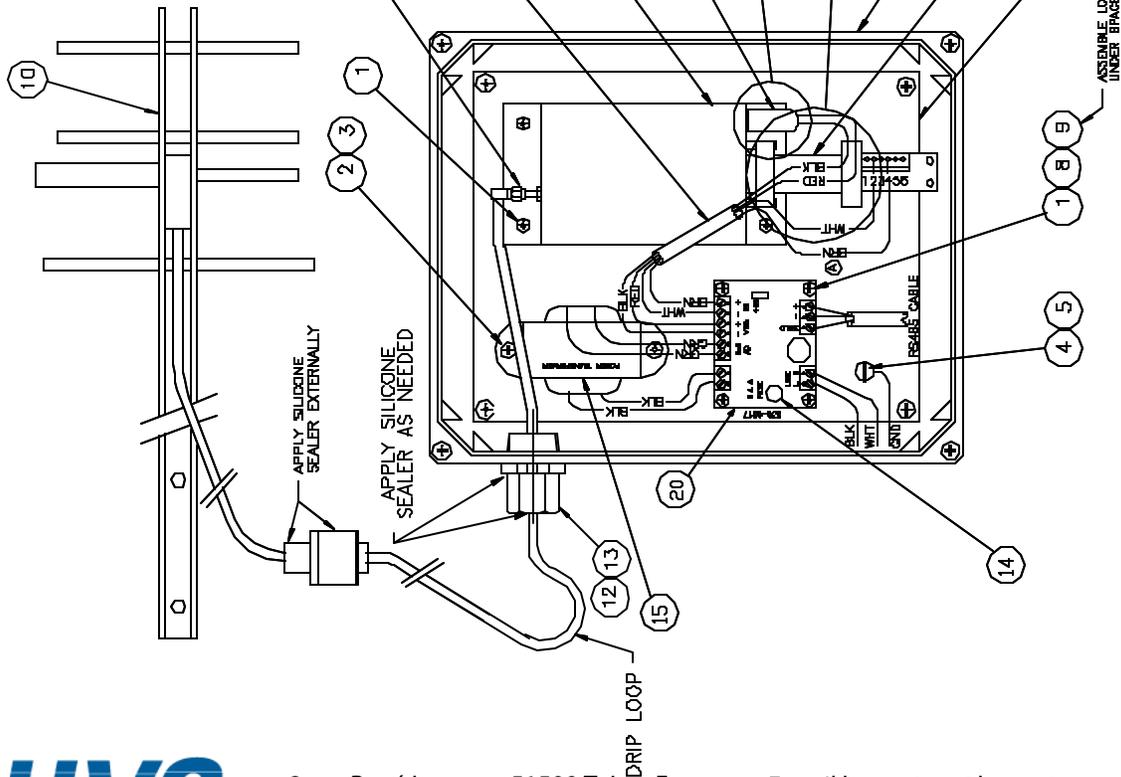
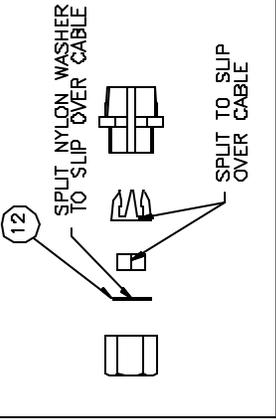


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ITEM NO.	QTY	DESCRIPTION	NO. REC'D	MATERIAL
1	1	SCREW, #6	0	
2	1	SCREW, #6	0	
3	2	WASHER, #6	2	
4	1	SLIP WASHER, #6-#10	1	
5	1	SCREW, #6, GRN. ENCL.	1	
6	1	ENCLOSURE	1	
7	1	PANEL	1	
8	4	SPACER	4	
9	4	WASHER, #6	4	
10	1	ANTENNA	1	
11	1	POWER PLUG	1	
12	1	NYLON WASHER	1	
13	1	STRAIN RELIEF	1	
14	1	FUSE, 400A	1	
15	1	TRANSFORMER	1	
16	1	CABLE, 5 CONDUCTOR	.893	
17	1	CABLE, ANTENNA 8'	1	
18	1	RADIO METER	1	
19	1	ADAPTER (SBU-0048)	1	
20	1	POB, POWER SUPPLY	1	



NOTES
 1. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)
 2. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)
 3. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)
 4. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)
 5. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)
 6. CENTER HOLE P/N 264-0174 (LEFT TO RIGHT)

DIMENSIONS ARE NOT ACCUMULATIVE

APPROVED	DATE	TITLE
SJS	1-11-93	ASSY. DRAWING, WIRELESS WT4-18D W/YAGI ANTENNA
DESIGNED		BY
DRAWN		BY
CHECKED		BY
ENGINEERING		BY
UNLESS OTHERWISE NOTED, DIMENSIONAL TOLERANCES ARE:		SIZE
1 PLACE	±	0.005
2 PLACE	±	0.01
3 PLACE	±	0.02
4 PLACE	±	0.05
ANGLES	±	0.5
MATERIAL FINISH		DMG. NO.
DO NOT SCALE DRAWING		B
		NO
		5300421

REVISION	DATE	APPR	BY
EC0-250401	08		
EC0-230802	08		
SYM			