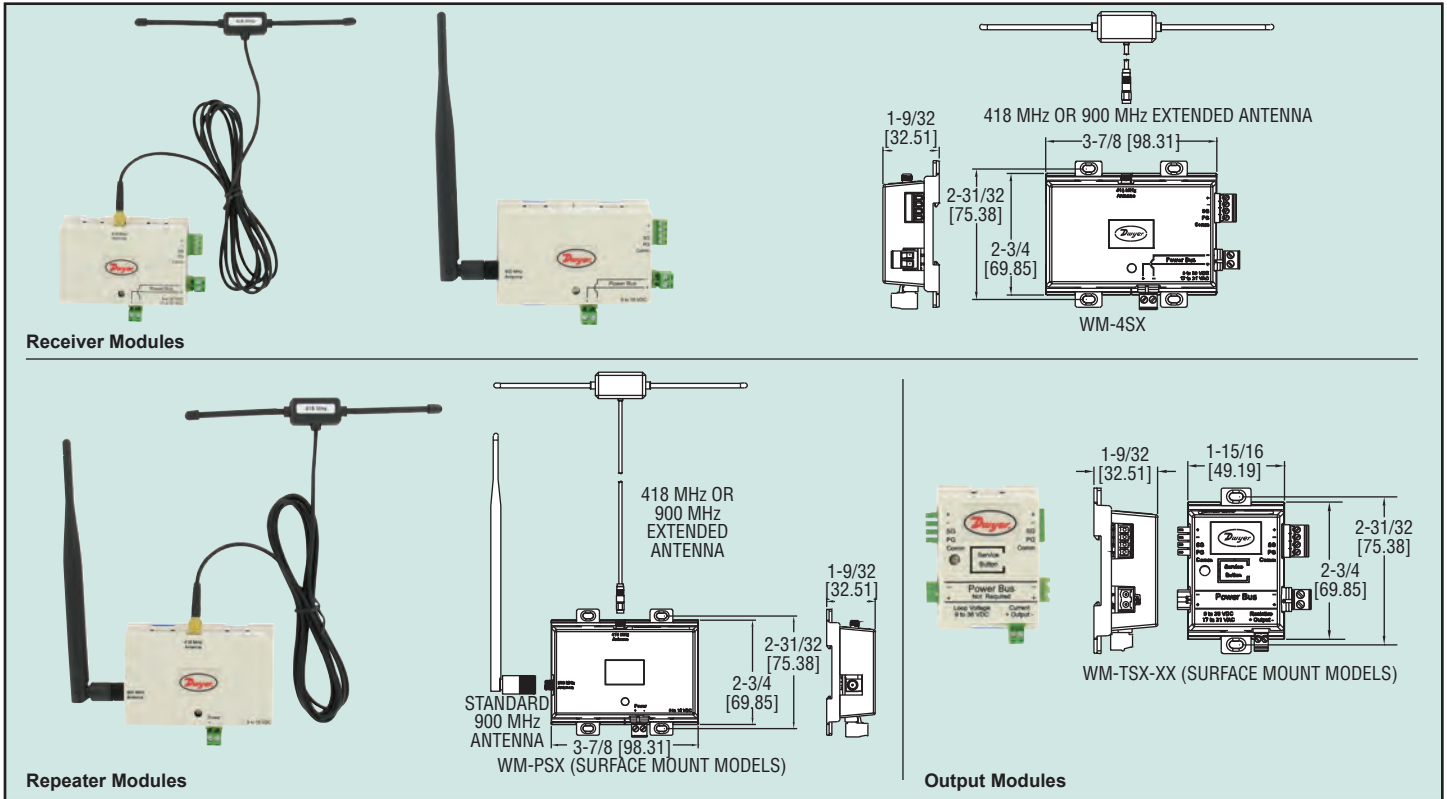




# Wireless Temperature/Humidity Product Accessories

Accessories to be Used with WHP or WTP



AIR QUALITY  
Humidity/Temperature Transmitters

**Wireless Output Modules, Repeaters and Receivers** are designed to work with Series WHP or WTP Wireless Temperature/Humidity Sensors. Receivers can be ordered to accept the 418 MHz directly from the sensors or 900 MHz from a repeater. Repeaters expand the distance between the sensors and the output modules from 100 feet up to more than 1000 feet.

Output modules are available with current or voltage outputs. Since the output module plugs directly into the receiver, the communications signal and the supply power do not require any wiring which saves installation time and labor costs. The integral mounting tabs allow for the output modules to be DIN rail mounted or surface mounted.

Wireless products are intended for use in U.S. territories, Canada and Mexico only.

## SPECIFICATIONS

### Repeaters and Receivers

**Supply Voltages:** Repeaters and 900 MHz receivers: 9 to 15 VDC; 418 MHz receivers: 9 to 30 VDC/17 to 31 VAC.

**Power Consumption:** Repeaters: 150 mA max; 900 MHz receivers: 80 mA max; 418 MHz receivers: 20 mA max.

**Maximum Output Modules Per Receiver:** 127.

**Outputs:** Repeaters: 900 MHz @ 100 mW; Receivers: RS-485.

**Temperature Limits:** 32 to 140°F (0 to 60°C).

**Humidity Limits:** 5 to 95% (non-condensing).

**Housing Material:** ABS UL 94V-0 plastic.

**Weight:** Receiver: 7.6 oz (215 g); Repeater: 9.1 oz (257 g).

**Agency Approvals:** RoHS.

### Output Modules

**Supply Voltages:** 0 to 5 VDC models: 9 to 30 VDC/17 to 31 VAC; 0 to 10 VDC models: 15 to 30 VDC/17 to 35 VAC; Current models: Loop powered 9 to 36 VDC.

**Power Consumption:** 0 to 5 VDC models: 3 mA max DC; 0.1 VA max AC; Current models: 20 mA max.

**Temperature Limits:** Ambient: 32 to 140°F (0 to 60°C).

**Humidity Limits:** Ambient: 5 to 95% (non-condensing).

**Output:** Voltage: 0 to 5 VDC or 0 to 10 VDC (depending on model); Current: 4 to 20 mA.

**Output Resolution:** 10 bit (voltage), 12 bit (current), 40Ω (resistance).

**Housing Material:** ABS UL 94V-0 plastic.

**Weight:** 1.9 oz (54 g).

**FCC Approval:** FCC ID# T4F06811RH.

**Agency Approvals:** RoHS.

### Voltage Output Modules

Model	Range	Output
WM-VSF-5A	50 to 90°F	0 to 5 VDC
WM-VSF-5H	-40 to 140°F	0 to 5 VDC
WM-VSF-1A	50 to 90°F	0 to 10 VDC
WM-VSC-1H	-40 to 140°F	0 to 10 VDC
WM-VSC-5A	10 to 32°C	0 to 5 VDC
WM-VSC-5H	-40 to 60°C	0 to 5 VDC
WM-VSC-1A	10 to 32°C	0 to 10 VDC
WM-VSC-1H	-40 to 60°C	0 to 10 VDC
WM-VSH-5I	0 to 100% RH	0 to 5 VDC
WM-VSH-1I	0 to 100% RH	0 to 10 VDC

### Repeaters & Receivers

Model	Type	Input	Antenna
WM-PSS	Repeater	418 MHz	Standard
WM-PSE	Repeater	418 MHz	Extended
WM-4SS	Receiver	418 MHz	Extended
WM-9SS	Receiver	900 MHz	Standard
WM-9SE	Receiver	900 MHz	Extended

### Current Output Modules

Model	Range
WM-CSF-4A	50 to 90°F
WM-CSF-4H	-40 to 140°F
WM-CSC-4A	10 to 32°C
WM-CSC-4H	-40 to 60°C
WM-CSH-5I	0 to 100% RH

### Voltage Output Modules

Model	Range	Output
WM-VSF-5A	50 to 90°F	0 to 5 VDC
WM-VSF-5F	-20 to 120°F	0 to 5 VDC
WM-VSF-1A	50 to 90°F	0 to 10 VDC
WM-VSF-1F	-20 to 120°F	0 to 10 VDC
WM-VSC-5A	10 to 32°C	0 to 5 VDC
WM-VSC-5G	0 to 85°C	0 to 5 VDC
WM-VSC-5H	-40 to 60°C	0 to 5 VDC
WM-VSC-1G	0 to 85°C	0 to 10 VDC
WM-VSC-1H	-40 to 60°C	0 to 10 VDC

### Temperature Set Point Outputs

Model	Output
WM-SSV-00	0 to 5V
WM-SSV-07	0 to 10V
WM-SSC	4 to 20 mA
WM-SSR-22	0 to 10KΩ
WM-SSR-26	0 to 20KΩ

### Current Output Modules

Model	Range
WM-CSF-4A	50 to 90°F
WM-CSF-4F	-20 to 120°F
WM-CSC-4A	10 to 32°C
WM-CSC-4G	0 to 85°C
WM-CSC-4H	-40 to 60°C

### Output Modules - Relay Outputs

Model	Output
WM-RSO	Normally Open
WM-RSC	Normally Closed