

# LONG RANGE WIRELESS SYSTEM

Monitor and Control 4 Switches or Valves  
Up to 8 Miles Away

HPWS Series



- ✓ 8 Mile Range
- ✓ Monitor Up to 4 Switches at One Time
- ✓ Easy Setup and Installation
- ✓ Rugged, Weatherproof NEMA 4X (IP66) Enclosure
- ✓ Perfect for Water Treatment Facilities and Pipelines

The OMEGA® HPWS Series long range wireless system allows users to remotely monitor the status of up to four discrete switches such as level, flow, or other contact switches up to 8 miles away.

Ideal applications for the HPWS include supervising the fluid level in a tank, operation of a distant pump from a control station, or monitoring the status of a pipeline. The HPWS Series is also useful for controlling switches in hard to access locations.

One HPWS-REC receiver can monitor a total of 4 switch transmissions from 1 to 4 unique HPWS-TX transmitters.

HPWS-TX, transmitter model shown smaller than actual size.



OM-AMPOLEMNT10 optional pole mount kits are 14 gauge (0.075") galvanized steel with 48" SS pole clamp and includes #10-32 SS screws, washers and lock nuts.



The included 0.9 m (3') antenna provides an 8 mile, outdoor line-of-sight range. In addition, the elevated barrier strip allows for easy wiring to user's switches.

The transmitter's included backup battery ensures transmissions will continue even when there's a short power loss at the monitoring location. The HPWS-REC also allows for an optional battery backup, which can provide up to 24 hours of normal use during a power loss. The 12V SLA battery is designed to recharge once AC power is restored.

The HPWS Series transmitters and receivers employ watertight cable glands allowing the fiberglass enclosure to be rated to NEMA 4X (IP66), ensuring continued performance when mounted outdoors.

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## SPECIFICATIONS

### General

**Enclosure:** Fiberglass reinforced polyester formulation

**Enclosure Dimensions (No Antenna):** 342.9 H x 292.1 W x 190.5 mm D (13.5 x 11.5 x 7.5")

**Weight:** 5.57 kg (12.28 lb)

**Closing Mechanism:** 4 Screws

**Enclosure Rating:** NEMA 4X (IP66)

**RF Connector:** UHF

### Radio

**Frequency:** 27.255 MHz

**Antenna Impedance:** 50 Ω

**Address Code:** 65,536 possible codes

### Electrical

**Power:** AC

**Power Requirement:** 115 Vac, 60 Hz or 230 Vac, 50 Hz

**DC Battery Backup:** Standard on transmitter, optional on receiver  
Battery Backup (HPWS-TX and HPWS-REC-BATT only)

**Internal Battery Backup:**

12V, 5.0 amp-hour

**Battery Life:** 5000 transmissions between charging (over 24 hours of typical use—typical use being 10 transmissions an hour)

**Battery Operating Temperature:** -35 to 60°C (-31 to 140°F) discharging, -20 to 50°C (-4 to 122°F) charging

### Transmitter

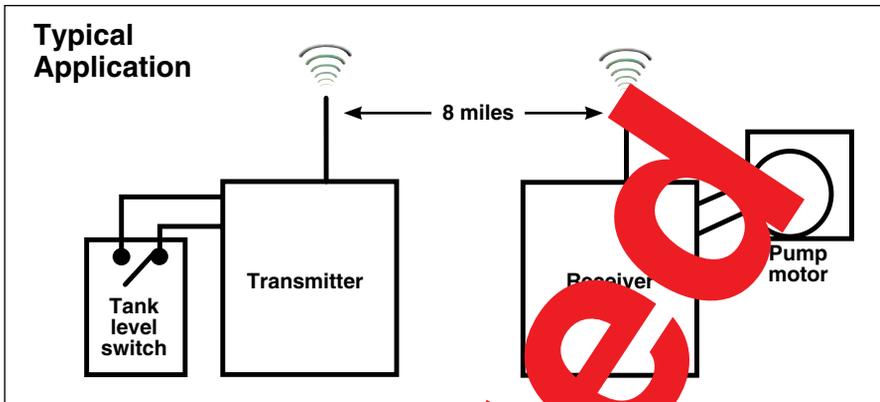
**Inputs:** 4 discrete inputs

**Transmit Power:** 10 watt

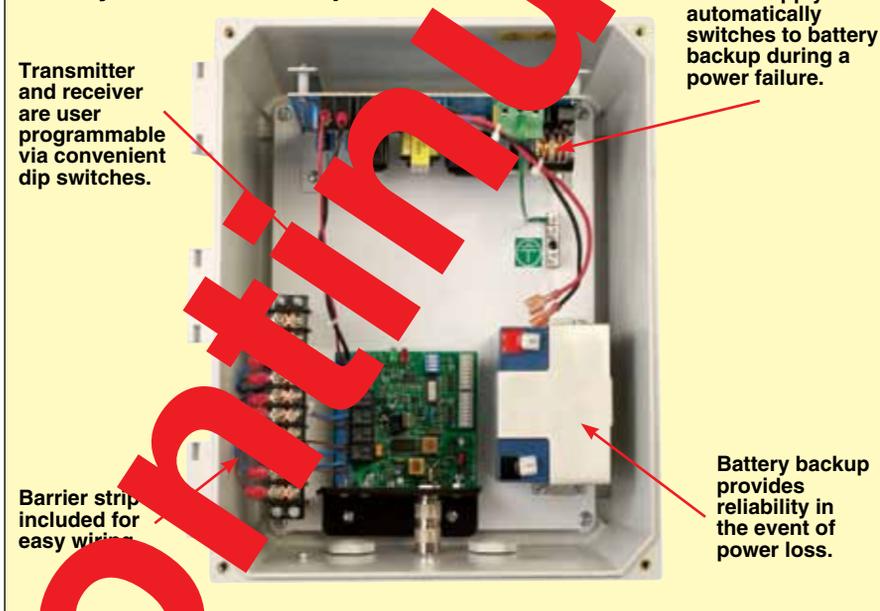
**Transmit Time:** Pulse (500 msec or less)

**Transmitted Data:** 4 discrete inputs, and battery and signal status

**Transmit Current:** 2A, momentary on transmit (500 msec or less)



### Ready to Install and Operate!



Transmitter and receiver are user programmable via convenient dip switches.

Power supply automatically switches to battery backup during a power failure.

Barrier strip included for easy wiring.

Battery backup provides reliability in the event of power loss.

**WARNING:** The FCC allows unlicensed, high-powered transmissions near the operating frequency of the HPWS. The HPWS Series is not intended to be used in applications where loss or interference of radio signals would be dangerous or cause a critical situation. In addition, the HPWS is not intended for use on humans or in nuclear facilities.

To Order Visit [omega.com/hpws](http://omega.com/hpws) for Pricing and Details

Model No.	Description
HPWS-TX	4-channel wireless switch transmitter with battery backup
HPWS-REC	4-channel wireless receiver
HPWS-REC-BATT	4-channel wireless receiver with battery backup

### Accessories

Model No.	Description
OM-AMPOLEMNT10	Pole mount kit for 254 mm (10") wide fiberglass enclosures
HPWS-BATT	Replacement backup battery 12V, 5 Amp-hour for HPWS series

**HPWS-TX** comes complete with long range, 4-channel wireless transmitter with battery backup, operator's manual, 5.5 m (18') of RG-58 cable, and 0.9 m (3') antenna.

**HPWS-REC** comes complete with long range, 4-channel AC-powered wireless receiver, operator's manual, 5.5 m (18') of RG-58 cable, and 0.9 m (3') antenna.

**HPWS-REC-BATT** comes complete with long range, 4-channel wireless receiver with battery backup, operator's manual, 5.5 m (18') of RG-58 cable, and 0.9 m (3') antenna.

**Ordering Examples:** **HPWS-TX**, 4-channel wireless switch transmitter, and **HPWS-REC** 4-channel wireless receiver.

**HPWS-TX**, 4-channel wireless switch transmitter, and **OM-AMPOLEMNT10** pole-mount kit.