

INDUSTRIAL PH INSTRUMENTATION & ELECTRODES

pH/ORP Transmitters

PHTX-271 Series Starts at \$512



- Display Temperature in °C or °F
- Hold and Simulate Functions
- Integral or Remote Mounting
- Open Collector or SPDT Relay Output
- 4 to 20 mA Output Standard
- Dual Output Option Allows Temperature and pH Signal Transmission
- ∠ 2 x 16 Character Dot Matrix LCD
- Chemical Resistant Enclosure and Self-Healing Window
- ✓ Large Pushbuttons
- Clearly Marked Terminal Labels Applications:
- ✓ Neutralization Systems
- Heavy Metals Recovery
- ✓ Plating Control
- ✓ Scrubber Control
- Environmental Study
- Water Treatment
- Water Quality Monitoring
- ✓ Waste Treatment
- Disinfecting

The PHTX-271 Series Transmitter is designed for broad application and ease of setup and use. The unit autoconfigures for either pH or ORP use when connected to recommended OMEGA® pH or ORP sensors. Multiple mounting options allow for installation best suited to your particular application. The automated "easy-cal" menu features automatic buffer recognition for mistake proof pH or ORP sensor calibrations. Two-line LCD provides sensor diagnostic information for ease in system maintenance.



PHTX-271-2P, \$612, shown larger than actual size.

Specifications

Accuracy: ±0.03 pH; ±2 mV ORP

pH Range: 0 to 14 pH

Temperature Range: -25 to 120°C

(-13 to 248°F); 3K Balco

ORP Range: -2000 to +2000 mV, isolated (10

 $k\Omega$ ID resistance T+, T-)

Current Output: 4 to 20 mA, isolated, passive,

fully adjustable and reversible

Loop Impedance: 50 Ω max @ 12V; 325 Ω max @ 18V; 600 Ω max @ 24V

Update Rate: 0.5 sec

Accuracy: ±0.03 mA @ 25°C, 24V Relay Output: Mechanical SPDT;

Hi, Lo, Pulse, Off

Maximum Voltage Rating: 5 A @ 30 Vdc

or 5 A @ 250 Vac, resistive **Hysteresis:** User-adjustable,

400 pulses/min max

Open-Collector Output: Hi, Lo, Pulse, Off;

Type/Rating: Optically isolated, 50 mA max,

sink, 30 Vdc max pull-up voltage **Hysteresis:** User-adjustable,

400 pulses/min max

Operating Ambient: -10 to 70°C

(14 to 158°F); 0 to 95% RH, non-condensing

Storage Temperature: -15 to 80°C

(5 to 176°F)

Display: Alphanumeric 2 x 16 LCD;

User selectable contrast, 5 levels

Enclosure Rating: NEMA 4X (IP65) front Keypad: Sealed 4-key silicone rubber Display Window: Polyurethane coated

polycarbonate

Power: 12 to 24 Vdc ±5%, regulated **Max Current:** 21 mA max for PHTX-271-1, 220 mA max for PHTX-271-2, 60 mA max for

PHTX-271-3

Dimensions: 96 H x 96 W x 97 mm D

(3.780 x 3.780 x 3.819")

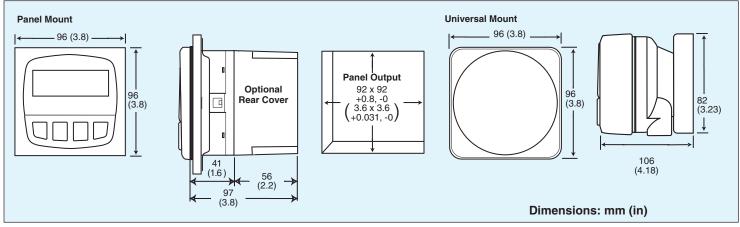
Panel Cutout: 92 mm² (3.622 in²) Shipping Weight: 0.6 kg (1.3 lb)

For Sales & Service



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All panel mount transmitters PHTX-271-XP include a mounting bracket and gasket for a NEMA-4X (IP65) watertight panel installation. Panel mount transmitters fit into a standard ¼ DIN panel cutout. The Universal Mount Kit FP90UM can be ordered separately and includes a conduit base, locking ring, and universal adapter for mounting the transmitter on a pipe wall or other stationary surface.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)						
Model No.	Price	Description	Mounting	Output(s)		
PHTX-271-1	\$512	pH/ORP transmitter	Field mount*	Open collector output		
PHTX-271-2	612	pH/ORP transmitter	Field mount*	Dual relays		
PHTX-271-3	756	pH/ORP transmitter	Field mount*	Dual open collector output		
PHTX-271-1P	512	pH/ORP transmitter	Panel mount	Open collector output		
PHTX-271-2P	612	pH/ORP transmitter	Panel mount	Dual relays		
PHTX-271-3P	756	pH/ORP transmitter	Panel mount	Dual open collector output		

^{*} Field mount transmitters require **FP90UM** universal mounting kit, **\$50**.

Pre-Amplifier and Sensors				
Model No.	Price	Description		
PH-2720-PA	\$209	Pre-amplifier with 4.5 m (15') cable, ¾ FNPT		
PHE-3271	267	Flat style pH electrode with ATC		
PHE-3271-HF	341	Flat style pH electrode with ATC, HF resistant		
PHE-2716	231	Bulb style pH electrode with ATC		
PHE-2716-D1	272	Bulb style pH electrode with ATC, deionized water		
ORE-2715	293	Flat style ORP sensor		
ORE-2717	256	Bulb style ORP sensor		

Accessories

7.0000001100				
Model No.	Price	Description		
FP90UM	\$50	Universal mounting kit		
FP90-4X	45	NEMA 4X (IP65) rear cover (panel mount)		
PH-31542-TC	12	Threaded cap for in-line installation 11/4 NPT		
PHA-4	5	4.00 pH buffer solution 500 mL (1 pt) bottle		
PHA-7	5	7.00 pH buffer solution 500 mL (1 pt) bottle		
PHA-10	5	10.00 pH buffer solution 500 mL (1 pt) bottle		
PSS-D12B	175	115 Vac to 12/24 Vdc, 240 mA power supply		

Comes complete with operator's manual.

Ordering Examples: PHTX-271-1P pH/ORP transmitter panel mount, PHE-3271 flat style pH electrode, PH-2720-PA pre-amplifier with 4.5 m (15') cable, PHA-4 pH 4 buffer solution, PHA-7 pH 7 buffer solution, \$512 + 267 + 209 + 5 + 5 = \$998.

PHTX-271-1 pH/ORP transmitter field mount, **FP90UM** universal mounting kit, **PHE-3271** flat style pH electrode, **PH-2720-PA** pre-amplifier with 4.5 m (15') cable, **PHA-7** pH 7 buffer solution \$512 + 50 + 267 + 209 + 5 = \$1043.

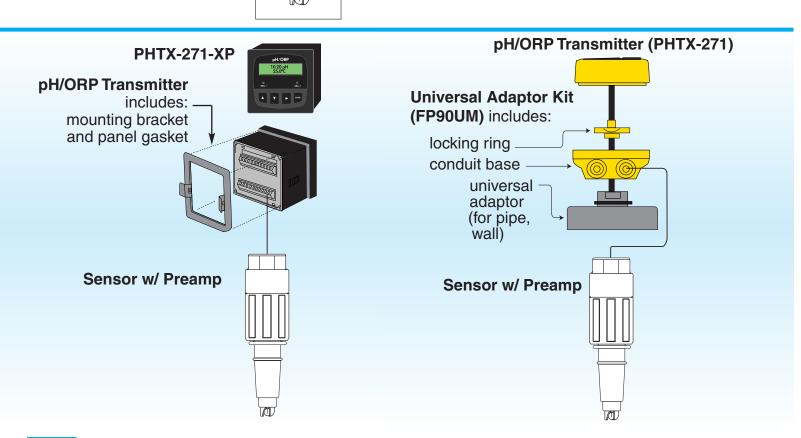




Installation

The transmitter is available in a panel mount or a field version. Select the universal mount kit FP90UM to mount the transmitter on a surface near the sensor.

1. Panel Mount 2. Universal Mount FP90UM Kit pH/ORP 10.20 pH 25.0°C PHTX-271-X PHTX-271-XP All Panel mount transmitters The Universal Mount Kit FP90UM can PHTX-271-XP include a mounting be ordered separately and includes a bracket and gasket for a NEMA-4X conduit base, locking ring, and universal adaptor for mounting the transmitter on (IP65) watertight panel installation. Panel mount transmitters fit into a a pipe, wall, or other stationary surface. standard ¼ DIN panel cutout.



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