

## Model 772 pH and ORP Analyzer

### Features:

- Multiple measurements. (pH/ORP, temperature)
- Accepts conventional combinational pH / ORP sensor. or DMT sensor.
- Accepts Pt 1000 RTD, Pt 100 RTD, or NTC 300 ohm thermistor temperature compensators.
- Large backlit LCD readout.
- Two isolated 4-20 mA analog outputs, selectable.
- Menu - guided operation.
- Universal-mount 1/2 DIN case.
- Passcode – protected access.
- Electrical Protection.
- Simple interactive diagnostics.
- Data logger facility upto 225 data points.
- Each data point logs pH/ORP, temperature, min & max pH/ORP values.



### ■ Specifications:

Display..... Graphic dot matrix LCD, 128 x 64 pixels with LED backlighting; 1/2 inch (13 mm) main character height; 1/8 inch (3 mm) auxiliary information character height; menu screens contain up to six text lines.

<u>Measurement</u>	<u>Selectable Ranges</u>
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pH.....	0.00 to 14.00 pH
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ORP.....	-2000 to +2000 mV
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Temperature.....	-10.0 to +140.0°C
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mA Outputs (# 1 and # 2).....	.4.00 to 20.00 mA
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Ambient Conditions.....	-30 to + 50°C; 0-100% relative humidity, non-condensing
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Relays

Types/Outputs.....	Two/Four electromechanical relays; SPDT (Form C) Contacts; U. L. rated 5A 115/230 VAC, 5A@ 30 VDC resistive.
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Functional Mode.....	Each relay (A, B,C,D) can be assigned to be driven by the measured pH (or ORP) or temperature
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Operating Modes .....	Control: Settings for high/low phasing, setpoint, deadband.
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	Alarm: Settings for low alarm point, low alarm point deadband, high alarm point, high alarm point deadband.
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Indicators.....	Relay annunciators (A, B, C,D) indicate respective relay status.
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Temperature Compensation.....	Automatic (-10.0° to +140.0°C) or manual (0.0 °C to +100. 0°C) with selection for temperature compensator (Pt 1000 ohm RTD, Pt 100 ohm RTD, or NTC 300 ohm thermistor used in BI sensors)
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Sensor-to-Analyzer Distance:

- Conventional Combination  
Electrode with Preamplifier.....3000 ft. (914 m) maximum
- Conventional Combination  
Electrode without Preamplifier..... 15 ft. (4.5 m) maxes. with electrode cable capacitance of less than 30 pF/foot
- With DMT sensor .....3000 ft. (914 m) maximum

Power Requirements.....	90-130 VAC, 50/60 Hz. (10 VA max.) or 180-260 VAC, 50/60 Hz. (10VA max.)
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Calibration Methods:

2-point Sample Method .....(pH & ORP)	Enter two sample values (derived by laboratory analysis or comparison reading) or two user-supplied buffer values.
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1-point Sample Method.....(pH & ORP)	Enter one sample value (derived by laboratory analysis or comparison reading), one reference solution value, or one user-supplied buffer value.
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Outputs: Analog ..... Two outputs (# 1 and # 2) each with 0.004 mA (12-bit) resolution:  
 Output #1: Isolated 4-20 mA (selectable); 600 ohms maximum load  
 Output #2: Isolated 4-20 mA (selectable); 600 ohms maximum load

**Note:** Each output can be assigned to represent the measured pH (or ORP) or temperature. Associated values can be entered to define the endpoints at which the minimum and maximum mA output values are desired. During calibration, both outputs and relays, hold their present values.

Memory Backup (non-volatile).....All user settings are retained indefinitely in memory (EEPROM)

**Analyzer Performance (electrical, Analog Outputs):**

Accuracy.....0.5% of span  
 Stability..... 0.05% of span per 24 hours,  
 non-cumulative  
 Repeatability.....0.1% of span or better  
 Temperature Drift...Zero: less than 0.03% of span per °C  
 Span: less than 0.03% of span per °C

**Mechanical**

Enclosure..... NEMA 4X; ½ DIN, Polycarbonate with four ½-inch conduit holes and two stainless steel mounting brackets  
 Mounting Conf.....Panel, Surface and pipe mount.  
 Net weight.....3 lbs. (1.36 kg) approximately

**Ordering Information**

<b>MODEL NUMBER</b> 772P/R pH analyzer (also selectable for ORP measurement) in ½ DIN, NEMA 4X enclosure with hardware for panel, surface or pipe mounting.
<b>LINE VOLTAGE</b> 1 115 volts, 50/60 Hz. 2 230 volts, 50/60 Hz
<b>Analog Outputs</b> I0 - No mA outputs I1 - With Isolated mA outputs
<b>RELAYS</b> R0 - No Relays R1 - With 2 Relays
N – Standard Instrument K – Special Instrument

Product Number

Choose one from each category.

**Dimensions**

Inches (mm)

