

Models 671P (pH) and 671R (ORP) Analyzers

- **Built-in Transmitter & Controller**
- **Accepts pH & ORP Sensors:**
 - Differential Electrode Measurement Technique
 - Conventional Combination Sensors With 300Ω Thermistor (NTC)
- **Standard Outputs: 4-20mA, 0-1 mA; 0-5 VDC**
- **ON/OFF Control with Deadband**
- **NEMA 4X Protection**
- **Universal Mounting**



Specifications

Operational:

Display	3-1/2 digit LCD with 3/4 inch (19mm) high digits
Measuring Range	671P:..... 0.00 to 14.00 pH
	671R:..... -1000 mV to +1000 mV
Ambient Conditions	-32 to 122 °F (0 to 50 °C): 0-100% relative humidity, non-condensing
Temperature Compensation	Automatic, 32-212 °F (0-100 °C), input accepts 300 Ω thermistor (for pH only)
Sensor-to-Analyzer Distance	BI 5-wire Differential Technique Sensor: 3000 Ft. (914m) maximum Conventional Combination Electrode: 10 Ft.(3 m) maximum for direct connection (Model 714 preamplifier is required for distance greater than 10 Ft.)
Power Requirements	115 VAC/230 VAC ± 10%, 50/60 Hz. (Less than 5 VA)

Relay Function:

Setpoints	Adjustable, 0-100% full scale
Deadbands.....	Adjustable, 0-15% full scale
Dual-alarm Feature	Individually adjustable. High and low alarm points (0-100% of full scale): each alarm point has a 2% fixed deadband
Indicators.....	LED lights when relay turns on
Contact Rating	SPDT; 5A 115/250 VAC; 5A @ 30VDC resistive

NOTE: Relays operate in response to increasing or decreasing reading, switch selectable.

Proportional Controller :

Setpoint	Adjustable, 0-100% of full scale
Proportional Gain	1 to 10
Controller Output	4-20 mA (analog output) drives 20-500 Ω loads
Analog Outputs	Non-isolated* 0-1 mA (100 Ω max. Load)/ 0-5 VDC (500 Ω min. Load) ‡4-20 mA non-isolated (500 Ω max. Load), 4-20 mA isolated(450 Ω max. Load)

* Non-isolated outputs are isolated from ground and line power, but not from the input or each other. The isolated output is isolated from the input, ground, line power and all other outputs.

‡ The range expand feature can be used to make the 4-20 mA output represent a selected segment of the measuring scale. This segment cannot be smaller than 10% of the measuring scale span, but it may be set anywhere within that span.

Analyzer Performance (Electrical, Analog Outputs):

Sensitivity	0.1% of span
Stability.....	0.1% of span per 24 hours, non- cumulative
Repeatability	0.1% of span
Non-linearity	0.05% of span
Response Time	3 seconds to 90% of value upon step change
Temperature Drift	Zero: 0.01% of span per °C Span: 0.015% of span per °C

Mechanical:

Enclosure	NEMA 4X, 1/2 DIN, polycarbonate case with two 1/2-inch conduit holes and two stain-less steel mounting brackets
Mounting	Surface, panel and horizontal pipe mount; vertical pipe mounting requires optional hardware
Net Weight.....	3 lbs. (1.36 Kg) approximately

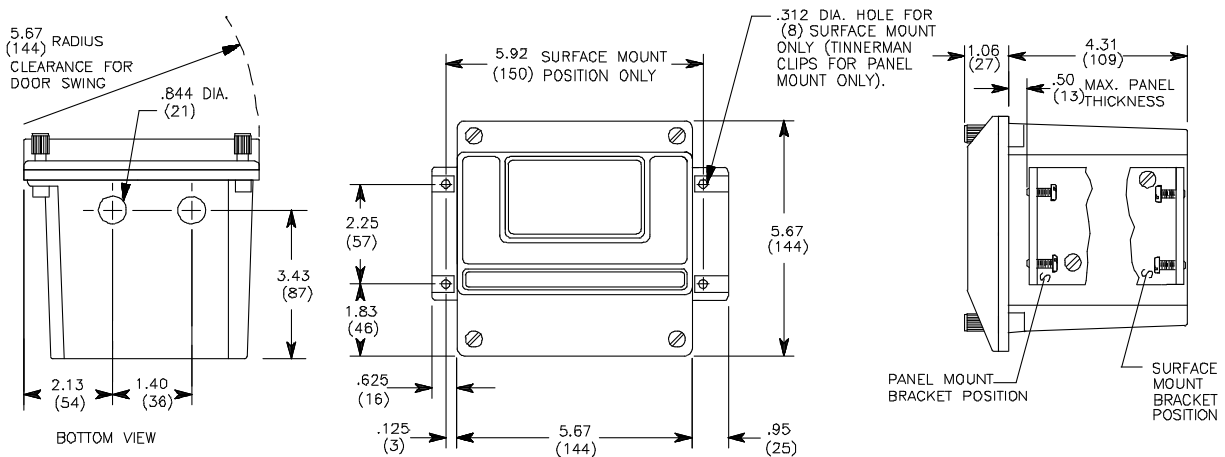
Ordering Information

MODEL NUMBER	
671	Analyzer in NEMA 4X, 1/2 DIN enclosure with stainless steel mounting bracket.
TYPE OF MEASUREMENT	
P	pH
R	ORP
DISPLAY	
0	No Display (Blind)
3	Digital LCD
LINE VOLTAGE	
1	115 volts, 50/60 Hz.
2	230 volts, 50/60 Hz.
ANALOG OUTPUT (Non-isolated 0-1 mA/0-5VDC plus:)	
F	Isolated 4-20 mA
C	Non-isolated 4-20 mA
IO	Without 4-20 mA output
CONTROL OUTPUT	
R0	Without Relay
R1	With Relays
N	Standard Instrument
K	Special Instrument

Choose one from each category.

Enclosure Dimensions

Inches (mm)



Panel Cutout 5.43 in. (138 mm) square