

## Models 671 Conductivity Analyzers (For Contacting and Electrodeless Type Sensors)



- Analyzers For Contacting and Electrodeless type
- Conductivity Sensors
- NEMA 4X Protection.
- Universal Mounting.
- Multiple, Standard Outputs.
- Versatile Relay Operation.

### Specifications

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#### Operational:

Display.....	3-1/2 digit LCD with 3/4" (19 mm) high digits
Measuring Range: Model 671C .....	0-20/200/2000µS/cm; 0-20/50 mS/cm;
Model 671E .....	0-200/2000µS/cm; 0-20/200/1000 mS/cm.
Ambient Conditions .....	-22 to 122 °F (-30 to 50 °C), 0 to 100% relative humidity, non-condensing. 70 °C & condensing-optional
Temperature Compensation .....	Automatic 32-482°F (0-230°C); Fixed at 2% per °C, 0-4% per °C
Sensor-To-Analyzer-Distance:.....	100 m max

#### Relay Function:

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

**NOTE :** Relays operate on increasing or decreasing reading, Switch selectable.

Analog Outputs (standard).....	Non-isolated 4-20 mA, (500 Ω max. Load)/ 0-1 mA (100 Ω max. Load)/ 0-5 VDC (500K Ω min. load)
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\* Non-isolated outputs are isolated from ground and line power, but not from the input or each other. The isolated outputs are 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.

The segment cannot be smaller than 10% of the measuring scale span, but it may be any where within that span

#### Analyzer Performance

##### (Electrical, Analog Output):

Sensitivity .....	0.1% of span
Stability .....	0.2% of span per 24 hours, non-cummulative
Non-Linearity .....	0.11% of span
Repeatability .....	0.05% of span
Temperature Drift ....	Zero: 0.02% of span per °C Span: 0.02% of span per °C
Response Time .....	5 seconds to 90% of value upon step change

#### Mechanical:

Enclosure .....	NEMA 4X, 1/2 DIN, Polycarbonate with Two 1/2 -inch conduit holes and two stainless steel mounting brackets
Mounting.....	Surface, panel, and horizontal pipe mount; vertical pipe mounting requires optional hardware
Net Weight .....	3 lbs. (1.35 kg approximately)

## Ordering Information

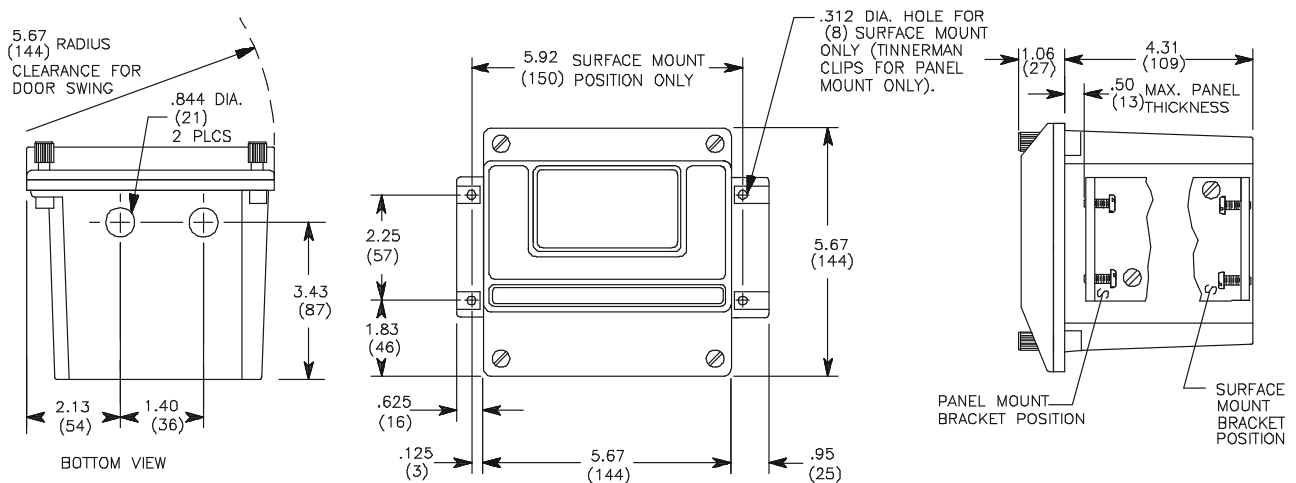
<b>MODEL NUMBER</b>	<b>671</b> Analyzer in NEMA 4X, ½ DIN enclosure with stainless steel mounting bracket.
<b>TYPE OF MEASUREMENT</b>	C Contacting Conductivity E Electrodeless Conductivity
<b>DISPLAY (Specify measuring range)</b>	3 Digital LCD (microSiemens/cm) 7 Digital LCD (millisiemens/cm)
<b>LINE VOLTAGE</b>	1 115 volts, 50/60 Hz. 2 230 volts, 50/60 Hz
<b>ANALOG OUTPUT</b>	C Non-isolated 4-20 mA F Isolated 4-20 mA I0 Without 4 – 20 mA output
<b>RELAYS</b>	R0 Without Relays R1 With Relays
<b>TEMPERATURE ELEMENT</b>	A THERMISTOR 3000Ω B RTD Pt1000Ω
<b>CELL CONSTANT *</b>	K1 = 0.05    K2 = 0.5    K3 = 1.0 (NTC 3 KΩ only) K4 = 10 (NTC 3 KΩ only)    K5 = Special
	N Standard Instrument K Special Instrument
<b>671</b>	

Choose one from each category.

\* Only for 671C type of measurement

## Dimensions

Inches (mm)



Panel Cutout 5.43 in. (138 mm) square

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For Upgradation, BI reserves the rights to alter the specifications at any time.