

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

Operational:

Display.....	3-1/2 digit LCD with 3/4" (19 mm) high digits
Measuring Range: Model 671C	0-20, 200, 2000 & 5000µS/cm; 0-20 & 50 mS/cm
Model 671E	0-200, 2000 µS/cm; 0-20, 200, 2000 mS/cm 0-1000 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

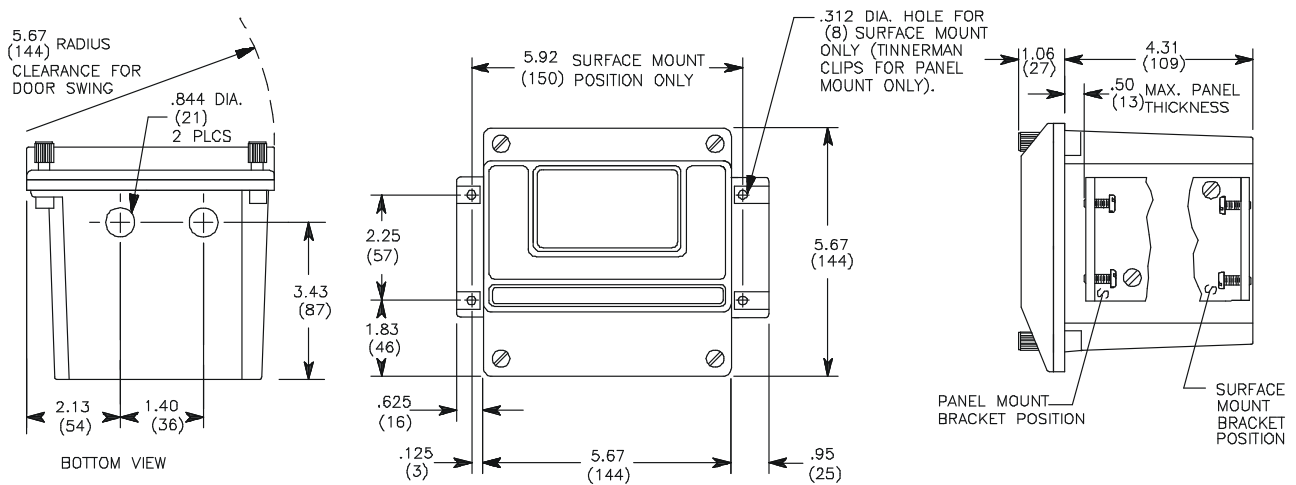
MODEL NUMBER	671 Analyzer in NEMA 4X, ½ DIN enclosure with stainless steel mounting bracket.
TYPE OF MEASUREMENT	C Contacting Conductivity E Electrodeless Conductivity
DISPLAY (Specify measuring range)	3 Digital LCD (microSiemens/cm) 7 Digital LCD (millisiemens/cm)
LINE VOLTAGE	1 115 volts, 50/60 Hz. 2 230 volts, 50/60 Hz
ANALOG OUTPUT	C Non-isolated 4-20 mA F Isolated 4-20 mA I0 Without 4 – 20 mA output
RELAYS	R0 Without Relays R1 With Relays
TEMPERATURE ELEMENT	A THERMISTOR 3000Ω B RTD Pt1000Ω
CELL CONSTANT *	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
671	

Choose one from each category.

* Only for 671C type of measurement

Dimensions

Inches (mm)



Panel Cutout 5.43 in. (138 mm) square