

Model 672C Conductivity Analyzer

FEATURES

- Accepts contacting type conductivity sensor with any cell constant.
- Displays conductivity, temperature, system configuration and mA output.
- Simple automated calibration.
- Two-fully programmable relays.
- Auto/Manual temperature compensation.
- Diagnostic error messages identify abnormal system conditions.
- Simple proportional control.
- Customised and OEM designs offered.



Specifications

Operational:

Display.....4-1/2 digit LCD with measurement unit and setup variable identifiers, 7/8" high digits
 Measuring Range:0 - 20, 200, 2000 & 5000 μS/cm; 0 – 10 & 75 mS/cm
 Temperature (-) 10.00 to (+) 200 °C (14 to 392°F)
 Ambient Conditions -20 to 60°C (-4 to 140 °F), 0 to 100% relative humidity, non-condensing.

Relay Function:

Operating Modes.....**Control:** Setpoint with adjustable deadband. Selectable operation in response to increasing or decreasing measured value.
Alarm: Dual-alarm relay operation with low and high alarm points and fixed deadbands (1.0 % of full scale)
Fail-safe: Reverses normal activation of Relay A and B (in control or alarm mode) so that relays are denergized in the non-control or non-alarm state.
System Alarm: Relays B energized whenever instrument detects a system diagnostic error (out-of-range conductivity and/or temperature input or memory loss). This mode overrides selected control or alarm mode.

Indicators.....Relay A and B annunciators flash on and off whenever respective relay energizes.

Outputs.....Two SPDT contact outputs, U.L. rating: 5A 115/250 VAC, 5A @ 30 VDC resistive.

Conductivity Sensor.....Cell Constant = 0.05, 0.5 or special
 (a) 3239 (Upto 200°C. **Boiler blowdown steam condensate** applications)
 Refer : 3239 Datasheet
 (b) 30000 (Upto 125°C DM water, Multi Distill Column applications)
 Refer : 30000 Data sheet

Temperature Compensation.....Automatic : 0-200 °C for Pt 1000 RTD. 0-125 °C for 3K Ohm Thermister.
 Manual : 0-200 °C automatic programmed fixed value in case of temp. element failure

Sensor-to-Analyzer Distance.....300 feet

Power Requirements.....98-132 VAC, 50/60Hz (less than 5VA), Optional 195-265 VAC, 50/60Hz

Analog Outputs*.....Isolated 0-1 mA, 100 ohms Maximum load
 Isolated 0-5 VDC, 1000 ohms Maximum load
 Isolated 4-20 mA, 1000 ohms Maximum load

Range Expand – The analog outputs can be made to represent any 10% segment of the measuring scale.

*Each output is isolated from the input, ground and line power, but not from each other.

Analyzer Performance

(Electrical, Analog Output):

Sensitivity0.3% of span
 Stability0.1% of span per 24 hours, non-cumulative
 Non-Linearity0.5% of span
 Repeatability0.2% of span or better
 Temperature DriftZero: 0.05% of span per °C
 Span: 0.025% of span per °C
 Response time1, 10 or 30 seconds to 90% of value

upon step change, selectable.

Mechanical:

EnclosureNEMA 4X, ½ DIN with two ½ -inch conduit holes and two stainless steel mounting brackets
 Mounting.....Surface, panel, and horizontal pipe Mount. Vertical pipe mounting optional
 Net Weight3 lbs. (1.36 kg).

CONDUCTIVITY

Ordering Information

MODEL NUMBER

672C Microprocessor based analyzer in NEMA 4X, 1/2 DIN enclosure, Polycarbonate

CELL CONSTANT

K1 0.05
 K2 0.5
 K3 1.0 (NTC 3 KΩ only)
 K4 10.0
 K5 Special

TEMPERATURE

T1 RTD 1K ohm
 T2 Thermistor 3K ohm

LINE VOLTAGE

V1 115 Vac, 50/60 Hz
 V2 230 Vac, 50/60 Hz

ANALOG OUTPUT

I0 Without 4-20mA output
 I1 Isolated 4-20mA output

RELAYS

R0 Without Relays
 R1 With Relays
 N Standard Instrument
 K Special Instrument

— Product Number (specify range)

Choose one from each category.

Dimensions

Inches (mm)

