

Model 672D Dissolved Oxygen Analyzer/Controller

FEATURES

- Readouts for DO(%), DO (PPM), temp & mA output
- Two-point calibration
- Two relays with programmable operating modes
- Diagnostic error messages identify abnormal conditions
- Remote calibration capability
- Proportional control capability



Specifications

Operational:

Display 4-1/2 digit LCD with measurement unit and setup variable identifiers, 7/8" high digits

Measuring Range:

- DO 0 TO 300%
- DO 0 TO 24 PPM
- Temp 0 - 80°C / 32 - 176°F
- mA 4-20 mA

Ambient Conditions -30 to 50°C (-22 to 122°F); 0 to 95% R.H. non-condensing.

Relay Functions :

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(0.1 PPM)

Fail-safe: Reverses normal activation of Relay A and B (in control, alarm or system alarm mode)so that relays will deenergize when a power interruption occurs.

System Alarm: Relay B transfers whenever instrument detects a system diagnostic error (outof-range DO % and/or temperature input or memory loss).

This mode overrides normal control or alarm operating mode.

Indicators Relay A and B annunciators flash to indicate respective status.

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

Temperature Compensation**Automatic** : 0-80°C (32-176°F) with NTC 22K ohm Thermistor.

Sensor-To-Analyzer Distance:50 feet max.

Power Requirements98-132 VAC, 50/60Hz (less than 5VA), Optional 195-265 VAC, 50/60 Hz

Remote Output HoldLSTTL-compatible (active low) or switch closure input.

Analog Outputs‡ Isolated 0-1 mA, 100 ohms minimum load

(with output hold feature) Isolated 0-5 VDC, 1000 ohms minimum load

..... Isolated 4-20 mA, 900 ohms minimum load

Range Expand – The analog outputs can be made to represent a 30% OR 2.4 PPM 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):

- Sensitivity 0.05% of span
- Stability 0.05% of span per 24 hours, non-cumulative
- Non-Linearity 0.1% of span
- Repeatability 0.05% of span or better
- Temperature Drift Zero: 0.01% of span per °C;
- Span: 0.01% of span per °C
- Response Time 1, 10 or 30 seconds to 90% of value upon step change, selectable.

Mechanical:

- Enclosure NEMA 4X, ½ DIN polycarbonate with two ½ - inch conduit holes and two stainless steel mounting brackets.
- OPTION : Explosion proof enclosure available
- Mounting Surface panel, and horizontal pipe mount. Vertical pipe mounting optional
- Net Weight 3 lbs. (1.36 kg) approximately

Ordering Information

MODEL NUMBER

672D Microprocessor based analyzer in NEMA 4X, ½ DIN enclosure, with two stainless steel brackets for panel, surface or pipe mounting.

TYPE

F for Fermentation
W for waste water

LINE VOLTAGE

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

ANALOG OUTPUT

I0 No mA
I1 Isolated mA

RELAYS

C0 No Relays
C1 With Relays

Choose one from each category.

PRODUCT NUMBER(Specify Range)

Dimensions

Inches (mm)

