

Process Automation Solutions

Data Sheet 672D/082K2

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

Remote Output Hold LSTTL-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.

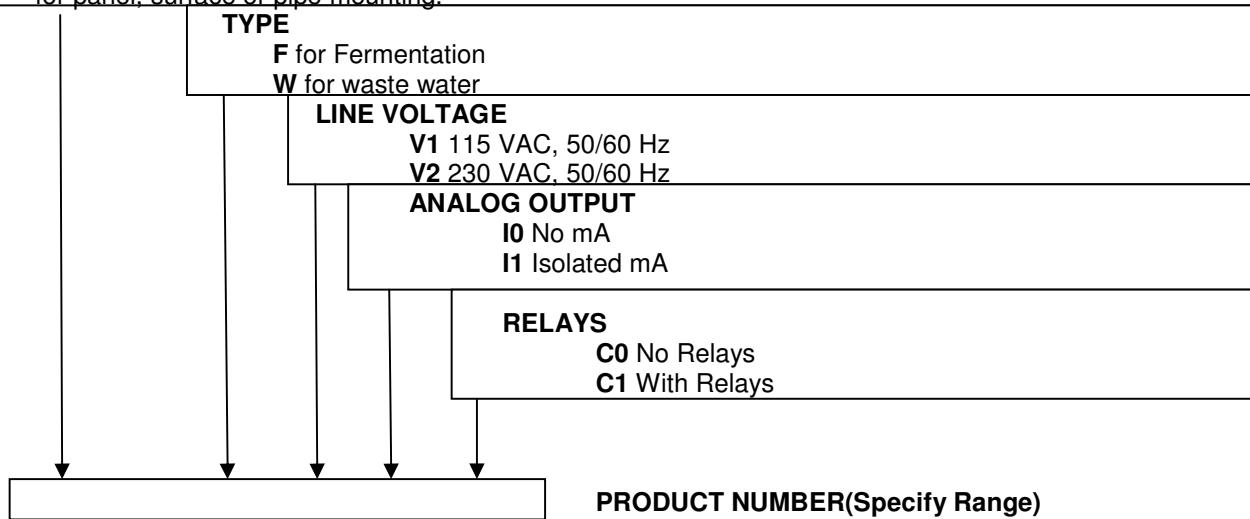
Mechanical:

Enclosure NEMA 4X, 1/2 DIN polycarbonate with two 1/2
- 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, 1/2 DIN enclosure, with two stainless steel brackets for panel, surface or pipe mounting.



Choose one from each category.

Dimensions

Inches (mm)

