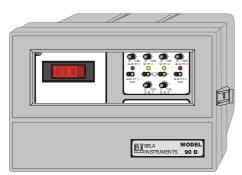
Model 90D Dissolved Oxygen Transmitter/Controller



• Dual 4-20 mA output

- Compact corrosion-resistant case with weatherproof door
- Universal mounting capability
- Dual-scaled analog meter or optional LED display
- Press-to-display selected setpoint values
- Relays energized on increasing or decreasing reading switch selectable
- Multiple standard outputs
- Range expandable analog outputs
- Plug-in printed circuit cards to facilitate servicing
- Versatile Relay operation. Sample transit time facility (0-2 minutes)
- AUTO/MANUAL control mode selection
- Manual control jogged via increase/decrease switch

Percent cycle relay output for control

Specifications - Operational:

Optional:

Display:	Digital (Standard)	. 2 1/2 digit LED, 0.5" high digits, scaled 0-19.9 ppm	
	Meter (Optional)	. 4 1/2" mirrored scale, dual-scaled (see back for std. scal	les)

Relay Function (optional):

Control and Alarm set points Continuously adjustable 0-100% of full scale with press to display set

point feature

Control Deadband Continuously adjustable 0-50% of full scale

Alarm Deadband Fixed at 0.25% of full scale

Indicators LED lights when respective relay turns on Contact Rating (U.L.) SPDT, 5A 115/230 VAC, 3A @ 30 VDC resistive

Note: Control or alarm relays operate on increasing or decreasing reading, switch selectable.

Two-Mode Controller: Set point Anywhere on measuring scale

(optional) Gains Proportional: 0-100 seconds, Loop: 0-100%

Transit Time 0-2 minutes (to compensate for sampling deadtime)

Output Current: One Isolated* signal of 4-20 mA, 625 ohms maximum load

OR % Cycle: One set of SPDT contacts rated at

5A 115/230 VAC, 3A @ 30 VDC resistive

Temp. Compensation Automatic 0 - 35°C (32 - 95°F)

connections via terminal strip. Transmitter supplies 48 VAC to

sensor motor.

0-1 mA, 100 ohms maximum load 0-5 VDC, 1000 ohms maximum load One additional current signal (isolated*)

4-20 mA, 625 ohms maximum load

Range Expand - The analog outputs can be made to represent a selected segment of the display scale. This segment or "sub-interval span" cannot be smaller than 10% of the measuring scale span, but may be positioned anywhere within that span.

* Non-isolated from ground and line power, but not from the input or each other. The isolated output is isolated from the input, ground, line power and all other outputs.

Sensor-to-Transmitter Distance 600 feet maximum

	STANDARD METER/ RECORDER SCALES	0-2 and 0-10 ppm	0-3 and 0-12 ppm	0-6 and 0-12 ppm	
alv	RECORDER SCALES	0-2 and 0-12 ppm	0-5 and 0-10 ppm		lae

Non-linearity 0.1% of span

Repeatability 0.05% of span or better Temp. drift Zero: 0.002 % of span/°C, Span

0.009% of span/°C

Response time ... 3 secs. to 99% of value upon step change

(with flame retardant additive), stainless steel hardware

Mounting Panel, Surface or horizontal pipe

Configuration mount optional

Net weight 12 lbs. (5.5 kg) maximum

Analyser Mechanical:

Enclosure NEMA 4X, styrene structural foam

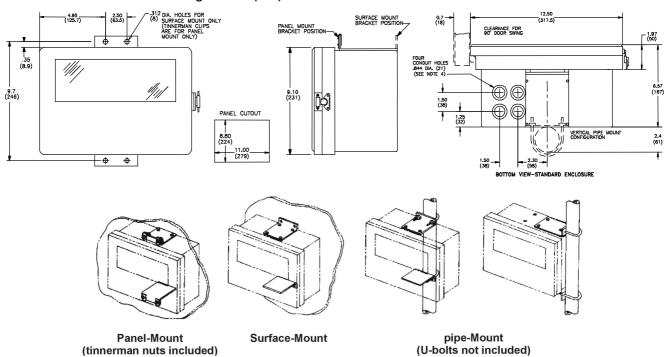
Ordering Information. **MODEL NUMBER** 90D NEMA 4X, styrene structural foam (with flame retardant additive) enclosure including stainless steel mounting brackets. The Model 90 can be panel, surface or pipe mounted, depending on the bracket attachment configuration. DISPLAY 1 Digital 0-1.99 ppm and 0-19.9 ppm switch selectable (Note A) 2 Meter, 4 1/2" dual-scaled **ANALOG OUTPUT** F Isolated 4-20 mA, Non-isolated 0-1 mA and 0-5 VDC plus **LINE VOLTAGE** 1 115 VAC, 50 Hz 240 VAC, 50 Hz **RELAYS** A None **B** Two control relays (with adjustable deadband) Two alarm relays (with fixed deadband) **CONTROLLERS** (Transit time feature included) 1 Two-mode (one 4-20 mA signal - Note A) 3 Two-mode percent of cycle (one set of SPDT contacts - Notes A and B N Standard Instrument K Special Instrument **Product Number** 90D

Choose one from each category.

NOTES: A. Digital display is not available when Controller Option 1 or 3 is ordered

B. When Controller Option 3 is ordered, the Relay Option must be specified as A and B

Enclosure Dimensions & Mounting - Inches (mm)





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INSTRUMENTS

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