

Specifications - Analyzer

Enclosure: Polycarbonate. Type 4X/CSA 4X IP66

Dimensions: 6.2 x 6.2 x 5.2 in. (157 x 157 x 132 mm)

Conduit openings: Accepts 1/2" or PG 13.5 conduit fittings.

Display: Large 3.75 x 2.2 in. (95.3 x 55.9 mm) high resolution color LCD for large process variables and user-definable display of diagnostic parameters. Back-Lighting is user adjustable. Main display can be customized to meet user requirements.

Measurement character height: 0.5 in. (13mm)

Security Code: 3-digit code prevents accidental or unauthorized changes in instrument settings and calibration.

Languages: English, French, German, Italian, Spanish, Portuguese, Chinese, Russian and Polish

Units: Turbidity (NTU, FTU, or FNU); total suspended solids (mg/L, ppm, or no units)

Display resolution-turbidity: 4 digits; decimal point moves from x.xxx to xxx.x

Display resolution-TSS: 4 digits; decimal point moves from x.xxx to xxxx

Calibration methods: User-prepared standard, commercially prepared standard, or grab sample. For total suspended solids user must provide a linear calibration equation.

Ambient Temperature and Humidity: 0 to 55°C, (32 to 131°F); RH 5 to 95% (non-condensing)

Altitude: For use up to 2000 meters.

Storage Temperature: -20 to 60°C, (-4 to 140°F)

Real time clock back-up: 24 hours

Power: 85 to 265 VAC, 47.5 to 65.0 Hz. 20W min. input power.

Equipment protected by double insulation.

Inputs: Single or dual input, EPA 180.1 or ISO 7027 sensors

Outputs: Four 4-20 mA or 0-20 mA isolated current outputs. Fully scalable. Maximum load: 550 ohm. Output 1 has superimposed HART signal

Output Dampening: 0-999 seconds

Current Output Accuracy: ± 0.05 mA @25°C

Alarms: Four process alarm relays for turbidity or temperature. Relays can also be programmed for timer, TPC, or fault alarm operation instead of as a process alarm. Each relay can be configured independently. Alarm logic (high or low activation) and deadband are user-programmable.


Terminal Connections Rating:

Power connector (3-leads); 24-12 AWG wire size.

Signal board terminal blocks; 26-16 AWG wire size.


Current output connectors (2-leads); 24-16 wire size.

Alarm relay terminal blocks: 24-12 AWG wire size.

RFI/EMI: EN-61326 
LVD: EN-61010-1


Hazardous Location Approvals – Analyzer

CSA approvals:

 Class I, Division 2, Groups A, B, C, & D
Class II, Division 2, Groups E, F, & G
C US Class III T4A Tamb= 50°C

Evaluated to the ANSI/UL Standards. The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S. respectively.

FM approvals:

 Class I, Division 2, Groups A, B, C, & D
Class II & III, Division 2, Groups E, F, & G
T4 Tamp = -10 deg C to 60 deg C

Relays: Form C, single pole, double throw, epoxy sealed.

Maximum Relay Current	
Power	Resistive
28 VDC 5.0 A	5.0 A
115 VAC 5.0 A	5.0 A
230 VAC 5.0 A	5.0 A

Field wiring terminals: Removable terminal blocks for power, analog outputs, and sensors

Specifications - Sensor

Method: EPA 180.1 or ISO 7027 (using 860 nm LED source). Must be specified when ordering.

Incandescent lamp life: one year (EPA 180.1)

LED life: three years (ISO 7027)

Wetted materials: Delrin1, glass, EPDM

Accuracy after calibration at 20.0 NTU:

0 - 1 NTU: $\pm 2\%$ of reading or ± 0.015 NTU, whichever is greater.

0 - 20 NTU: $\pm 2\%$ of reading

NOTE: turbidity values of 2-200 NTU can be measured but frequent cleaning may be required to maintain turbidity measurements.

Cable: 20 ft (6.1 m) or 50 ft (15.2 m). Maximum 50 ft (15.2 m). Connector is IP65.

Maximum Pressure: 30 psig (308 kPa abs)

Temperature: 40 - 95°F (5 - 35°C)

Sensor body rating: IP65 when cable is connected

Specifications - Debubbler and Flow Chamber

Dimensions: 18.1 in. x 4.1 in. diam. (460 mm x 104 mm diam.) (approx.)

Wetted materials: ABS, EPDM, Delrin®, polypropylene, nylon

Inlet: Compression fitting accepts 1/4 in. OD tubing; fitting can be removed to provide 1/4 in. FNPT

Drain: Barbed fitting accepts 3/8 in. ID tubing; fitting can be removed to provide 1/4 in. FNPT. Must drain to atmosphere.

Sample temperature: 40 - 95°F (5 - 35°C)

Minimum inlet pressure: 3.5 psig (125 kPa abs). 3.5 psig will provide about 250 mL/min sample flow.

Maximum inlet pressure: 30 psig (308 kPa abs). Do not block drain tube.

Recommended sample flow: 250 - 750 mL/min

Specifications - General

Weight/shipping weight (rounded to the nearest lb or 0.5 kg):

Sensor: 1 lb/2 lb (0.5 kg/1.0 kg)

Analyzer: 2 lb/3 lb (1.0 kg/1.5 kg)

Debubbler: 3 lb/4 lb (1.5 kg/2.0 kg)

Specifications subject to change without notice.