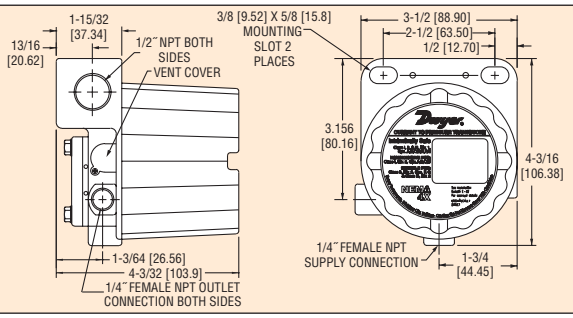
Series 2200

Current To Pressure Transducer

Intrinsically Safe or Explosion-Proof, Accuracy to 0.15%



The Dwyer Series 2200 Current to Pressure Transducer combines low cost, accuracy and minimal air consumption with field-proven technology. Versatile design features a rugged, compact housing with a choice of CSA and FM approved explosion-proof or intrinsically safe operation when used with a suitable barrier. The unit features easy access to zero and span adjustments, plus controls for field selectable direct, reverse or split-range operation.

MODELS

Model No.	Input	Output	Housing
2213-0	4-20 mA	3-15 psig	Intrinsically Safe
2216-0	4-20 mA	6-30 psig	Intrinsically Safe
2213-0-E	4-20 mA	3-15 psig	Explosion-Proof
2216-0-E	4-20 mA	6-30 psig	Explosion-Proof

ACCESSORIES

A-621 Valve Mounting Kit. If field mounting to Hi-Flow™ Valve, special adapter plate may be required. Consult factory for necessary components and details.
A-620 Pipe Mounting Kit.

SPECIFICATIONS

Input Signal: 4-20 mA, 2-wire.
Air Supply: 20 (±2) psig for 3-15 psig; 1.4 (±0.14) kg/cm² for 0.21-1.1 kg/cm² output. 35 (±2) psig for 6-30 psig: 2.5 (±0.14) kg/cm² for 0.42-2.1 kg/cm² output.
Output: 3-15 psig (.21-1.1 kg/cm²), 6-30 psig (.42-2.1 kg/cm²).
Accuracy: ±0.15% of span (3-15 psig, 0.21-1.1 kg/cm²) ±0.25% of span (6-30 psig, 0.42-2.1 kg/cm²).
Repeatability: 0.05% of span.
Deadband: 0.02% of span.
Stability: 0.5% of span/6 months.
Power Requirement: 8-40 VDC. Loop powered. Internal resistance is 1000 ohms at 4 mA and 200 ohms at 20 mA.
Operating Current: 3.7 mA minimum, 200 mA maximum.
Temperature Limits: –20 to 150°F (–29 to 66°C).
Connection: 1/4″ female NPT supply port (1) and 1/4″ female NPT output port (2). 1/2″ female NPT electrical conduit connection.
Air Consumption: 0.04 scfm (.02 l/s) steady state average; 0.06 scfm (.03 l/s) maximum.
Output Capacity: 4.0 scfm (1.9 l/s)
Failure Mode: Transducer always fails in the direct mode.
Enclosure: Internally purged NEMA 4X cast/machined aluminum with powder coat epoxy.
Weight: 2.5 lb (1.13 kg).
Agency Approvals: CE, CSA, FM.

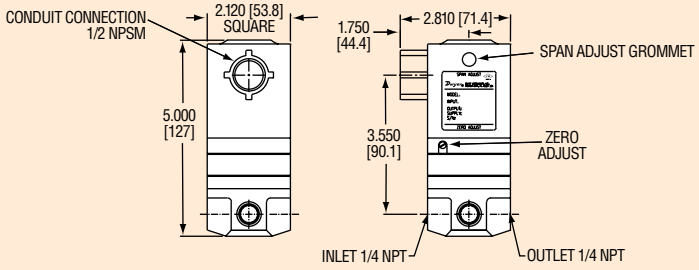
Valve Mount: For factory mounting and calibration to Hi-Flow™ control valves, add Current-to-Pressure Transducer model number as suffix. Example: 2004VA32-223-2213-0.

Valves

Model 2343

Current To Pressure Transducer

Intrinsically Safe, Two Wire, Accuracy to ±1%



Compact and Durable, the Model 2343 Current To Pressure Transducer combines outstanding performance with an extremely low price, making it an exceptional value for industrial applications. Installation is easy; a standard terminal strip and the ability to mount the unit in any position reduce costly labor time. Other important features include easily accessible zero and span adjustment, built in volume booster for quicker response and field selectable direct or reverse operation. Excellent process control can be obtained by combining this 2-wire transducer with the Hi-Flow™ Valve and 1600, 2600 or 8600 Controller for systems in industries like food and beverage, chemical processing, pulp and paper, and pharmaceutical.

SPECIFICATIONS

Input Signal: 4-20 mA.
Input Impedance: 225 ohms.
Air Supply: 20 psig (1.4 kg/cm²) minimum, 100 psig (7.0 kg/cm²) maximum.
Output: 3-15 psig (.21-1.1 kg/cm²).
Accuracy: ±1.0% of span.
Repeatability: ±0.5% of span.
Linearity: ±0.75% of span.
Hysteresis: ±0.5% of span.
Power Requirements: Loop-powered.
Temperature Limits: 0 to 130°F (-17 to 55°C).
Pressure Connections: 1/4″ female NPT (supply and output).
Electrical Connection: 1/2″ female NPT conduit.
Air Consumption: 0.1 scfm (.05 l/s) @ 100 psig.
Output Capacity: 4.0 scfm (1.9 l/s).
Failure Mode: Upon loss of electrical signal, transducer will fail below 2 psig.
Weight: 1.7 lb (0.77 kg).
Agency Approvals: FM.

Suggested Specification

Current to pressure transducer shall be FM approved for intrinsically safe operation (when used with FM approved barrier). Input shall be 4-20 mA with 3-15 psig output, capable of field selectable direct or reverse operation. Unit shall be capable of mounting in any position. A standard terminal strip shall be provided. Transducer shall be Dwyer Instruments, Inc. Model No. 2343.

Model 2343