**Type 3211 & 3221**

**Analog Weatherproof Regulators**

**Description**

The Type 3211 single loop and 3221 double loop controllers offer non-bleeding solenoid valve technology with an integral flow booster that produces forward flows equivalent to standard industrial electronic regulators or I/P converters. The 3211/3221 offers analog monitoring of the output pressure by a 0-10 VDC signal, plus logic monitor output of the solenoid valves. Many output pressures are available up to 150 psi. A built in air volume booster provides for a forward flow of up to 15 SCFM and a reverse flow (exhaust) of up to 7 SCFM. The double loop (3221) option permits 0-10 VDC feedback from a remote sensor.

Applications include; Machine Automotive, Robotics Control, Web Tension Control, Tire Manufacturing and Testing, Torque Control, Molding and Forming Operations, and Paint Spray.

**Features**

- Weatherproof Enclosure
- User Selectable Input Signal
- Analog Monitor Output
- Single Loop and Dual Loop Control

**Type 3211/3221 Ordering Information**

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- Logic Output
  - CMOS
  - TTL
  - Open-Collector

- Analog Control Signal
  - 0-10V

- Lower Output Pressure
  - Pressure Units: PSIG

- Upper Output Pressure
  - 5 PSIG Output Pressure
  - 15 PSIG Output Pressure
  - 30 PSIG Output Pressure
  - 100 PSIG Output Pressure
  - 150 PSIG Output Pressure

- Mounting
  - Pipe (in-line)
  - Manifold-Mount

- Supply and Output Ports
  - 1/4 NPT
  - 1/4 BSPT
  - 1/4 BSPP

- Options
  - None
  - 12 VDC supply

**Type 3211 and 3221**

**Performance**

- Full-Scale Accuracy 0.5%

**Electrical Inputs**

- Supply Voltage: 15-24VDC (12VDC option)
- Stand by Supply Current: 03 mA
- Maximum Supply Current: 325 mA
- E/P Control: 0-10V, 10K OHMS
- I/P Control: 4-20 mA, 250 OHMS

**2nd-loop Remote Sensor Feedback**

- Type 3221: 0-10V

**Electrical Outputs**

- Monitor Output: 0-10V (4-20 mA option)
- Logic Output: CMOS, TTL, Open-Collector

**Pneumatic Inputs**

- Max. Output PSIG (BAR) vs. Max. Supply PSIG (BAR)
  - Up to 5 (.35)
  - >5 to 15 (.35-1.03)
  - >15 to 30 (1.03-2.1)
  - >30 to 100 (2.1-8.9)
  - >100 to 150 (8.9-13.8)

**Supply Pressure**

- Full-scale Atmospheric Pressure Ranges: 5, 15, 30, 100, 150 psig
  - 0.07, 0.35, 1.03, 2.07, 6.9, 10.34 BAR

**Pneumatic Outputs**

- Forward Flow Capacity: 15 SCFM, 425 LPM
- Exhaust Flow Capacity: 7 SCFM, 198 LPM

**Environmental**

- Operating Temperature: 32-141 °F (0-60 °C)
- Media-Wetted Materials: Aluminum, copper alloys, nickel, buna-n, silicon, 316SS
- Required Accessories: 6-pin micro cordset
- Recommended Accessories: DIN-rail Bracket, Panel Bracket, Power Supply, Control Knob, Remote Pressure Sensor

*Order panel bracket and DIN rail clip separately. For Manifold-Mount (no threads), specify 0 for Supply and Output Ports.