**Type 3511 & 3521**

**Digital Weatherproof Regulators**

**Description**

The 3511 offers solenoid valve technology with forward flow equivalent to standard industrial electronic regulators or I/P transducers. Available with local keypad programming option or RS-485 Digital Communications for PLC or PC control. Dual solenoid valves with internal pressure sensor and advanced microprocessor control. A built-in air volume booster provides the 3511 with forward flow up to 17 SCFM. Proportional - Integral - Derivative (PID) control. Ranges from 0 to 150 PSIG, Reverse flow (exhaust) of up to 7 SCFM. The double loop (3521) option permits 0-10 VDC feedback from a remote sensor. The keypad is available with a four digit display of the output pressure.


**Features**

- Serial Interface
- Digital or Analog Inputs
- Analog Monitor Output
- Single Loop and Dual Loop Control
- Forward Flow up to 17 SCFM
- Digital Display
- Weather Proof Housing

**Type 3511 and 3521 Ordering Information**

<table>
<thead>
<tr>
<th>5</th>
<th>1</th>
<th>0</th>
<th>P</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>loop 1</td>
<td>1loops</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>loops 2</td>
<td>2loops</td>
<td></td>
</tr>
</tbody>
</table>

S

- Digital Interface
  - Serial RS-485 (RS-232 and USB via converters)
  - Keypad/display programmer

P

- Analog Control Signal
  - 0-10V
  - 4-20mA

E

- Lower Output Pressure
- Lower Limit of Output Pressure

I

- Pressure Units
  - PSIG
  - Inches of Water Column

G

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

W

- Mounting
  - Pipe Mount
  - Manifold Mount

O

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

P

- Options
  - None
  - 15 VDC Supply

**Type 3511/3521**

<table>
<thead>
<tr>
<th>Performance</th>
<th>Full-Scale Accuracy 0.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Inputs</td>
<td>24VDC (optional 15VDC)</td>
</tr>
<tr>
<td>Stand by Supply Current</td>
<td>80 mA</td>
</tr>
<tr>
<td>Maximum Supply Current</td>
<td>325 mA</td>
</tr>
<tr>
<td>Supply Pressure</td>
<td>Max. Output PSIG (BAR)</td>
</tr>
<tr>
<td>Up to 5 (.35)</td>
<td>20 (1.4)</td>
</tr>
<tr>
<td>&gt;5 to 15 (.35-1.0)</td>
<td>30 (2.1)</td>
</tr>
<tr>
<td>&gt;15 to 30 (1.0-2.1)</td>
<td>60 (4.1)</td>
</tr>
<tr>
<td>&gt;30 to 100 (2.1-6.9)</td>
<td>165 (11.4)</td>
</tr>
<tr>
<td>&gt;100 to 150 (6.9-10.3)</td>
<td>200 (13.8)</td>
</tr>
</tbody>
</table>

**Outputs**

- Atmospheric Pressure Ranges
  - 5, 15, 30, 100, 150 PSIG
  - 0.35, 1.03, 2.07, 6.89, 10.34 BAR

- Forward Flow Capacity
  - 15 SCFM (425 LPM)

- Exhaust Flow Capacity
  - 7 SCFM (198 LPM)

- Analog Setpoint Control
  - 0-5V, 0-10V, 4-20mA

- Digital Setpoint Control
  - 0-100% full scale (installed sensor=100%)

- Digital Communications
  - Serial RS-485 interface

- Serial Address
  - Addresses 0-29 available (except p q reserved).
  - R’s default selectable and configurable via Serial or Keypad Display Interface

- Loop Options
  - Regulate first loop (onboard sensor) or 2nd loop (remote sensor)

- Remote Sensor Feedback
  - 0-10V, 0-5V, 4-20mA, (Forward and Reverse Acting)

- Analog Output Source
  - Follow Setpoint, Output Pressure, or Remote Sensor

- Analog Output Range
  - 0-10V, 0-5V

**Environmental**

- Operating Temperature
  - 32-141 °F (-60 °C)

- Media-Wetted Materials
  - Aluminum, copper alloys, nickel, buna-n, silicon, 316SS