

Type 3512 & 3522

Digital Weatherproof Regulators

Description

The Type 3512 single loop and 3522 double loop are single units - integrated controller and booster. The 3512/3522 offers solenoid valve technology with forward flow exceeding those of most standard industrial electronic regulators or I/P transducers. Available with a local keypad programming option or RS-485 digital communications for PLC or PC control. Many output pressure ranges are available up to 150 PSIG. With a reliable twin solenoid valve system, and an integral pressure sensor, an accuracy of $\pm 0.5\%$ is obtainable.

Applications include; Gripper Control, Welding Operations, Actuator Control, Machinery Automation, Precision Robotics, Web Tension, Semiconductor Equipment, Molding and Forming Operations and Tire Manufacturing and Testing.

Features

- Serial Interface
- Digital or Analog Inputs
- Analog Monitor Output
- Single Loop and Dual Loop Control
- Forward Flow up to 60 SCFM
- Digital Display



Type 3512 and 3522 Ordering Information

| 5 | 2 | 0 | P | 1 | |
|---|---|-----|---|----|--|
| ↑ | ↑ | ↑ | ↑ | ↑ | Loops |
| 1 | | | | | 1 loop |
| 2 | | | | | 2 loops |
| | 2 | | | | |
| | | | | | Digital Interface |
| | | | S | | Serial RS-485 (RS-232 and USB via converters) |
| | | | P | | Keypad/display programmer |
| | | | | | Analog Control Signal |
| | | | E | | 0-10V |
| | | | I | | 4-20 mA |
| | | | | | Lower Output Pressure |
| | | 0 | | | Lower Limit of Output Pressure |
| | | | | | Pressure Units |
| | | | G | | PSIG |
| | | | | | Upper Output Pressure |
| | | 030 | | | 30 PSIG |
| | | 100 | | | 100 PSIG |
| | | 150 | | | 150 PSIG Upper Limit |
| | | | | | Mounting |
| | | | P | | Pipe Mount |
| | | | | | Supply and Output Ports |
| | | | 0 | | 1/4 NPT |
| | | | 1 | | 1/4 BSPT |
| | | | 2 | | 1/4 BSPP |
| | | | 3 | | 3/8 NPT |
| | | | 4 | | 3/8 BSPT |
| | | | 5 | | 3/8 BSPP |
| | | | | 1 | |
| | | | | | Options |
| | | | | 00 | None |
| | | | | 15 | 15 VDC Supply |

Type 3512/3522

| | |
|-----------------------------|--|
| Performance | Full-Scale Accuracy 0.5% |
| Electrical Inputs | |
| Supply Voltage | 24VDC (optional 15VDC) |
| Stand by Supply Current | 80 mA |
| Maximum Supply Current | 325 mA |
| Supply Pressure | |
| | Max. Output PSIG (BAR) Max. Supply PSIG (BAR) |
| | Up to 5 (.35) 20 (1.4) |
| | >5 to 15 (.35-1.0) 30 (2.1) |
| | >15 to 30 (1.0-2.1) 60 (4.1) |
| | > 30 to 100 (2.1-6.9) 165 (11.4) |
| | >100 to 150 (6.9-10.3) 200 (13.8) |
| Outputs | |
| Atmospheric Pressure Ranges | 30, 100, 150 PSIG 0.35, 1.03, 2.07, 6.9, 10.34 BAR |
| Forward Flow Capacity | 60 SCFM (1700 LPM) |
| Exhaust Flow Capacity | 15 SCFM (425 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 a-z available (except p and q reserved). 'r' 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, 4-20 mA, (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 (0-60 °C) |
| Media-Wetted Materials | Aluminum, copper alloys, nickel, buna-n, silicon, 316SS |