Type 3510 & 3520
Digital Weatherproof Regulators

Description
The Type 3510 single and 3520 double loop electro-pneumatic servo pressure controllers combine the advantages of reliable solenoid valves and digital control. Available with a local keypad programming option or RS-485 Digital Communications for PLC or PC control. The digital pressure controller is one of the most precise, accurate, and reliable devices available in the industry today, by giving the user the ability to set and extract data directly from the transducer with a PC or automation system. With a forward flow of 1.25 SCFM at 100 PSI, the 3510/3520 can be used alone for many applications or combined with a volume booster for flows in excess of 2,000 SCFM. Many output ranges are available, from 29" Hg vacuum to 600 PSIG. Standard accuracy is ±0.5% FS or better. A four digit display of the output pressure is available with the keypad model.


Features
- Digital Display
- Serial Interface
- Forward Flow 1.25 SCFM at 100 PSI
- Digital or Analog Inputs
- Analog Monitor Output
- Single Loop and Dual Loop Control

Type 3510 and 3520 Ordering Information

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- Loops
- 1 Loop
- 2 Loops
- Digital Interface
- Serial RS-485 (RS-232 and USB via converters)
- Keypad/display programmer
- Analogue Control Signal
- 0-10V
- 4-20mA
- Lower Output Pressure
- Lower Limit of Output Pressure (PSIG)
- Pressure Units
- PSIG
- PSIG Absolute
- Vacuum
- Inches of Water Column
- Upper Output Pressure
- 1 PSIG
- 5 PSIG
- 15 PSIG
- 30 PSIG
- 100 PSIG
- 150 PSIG
- 300 PSIG
- 600 PSIG

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- Mounting
- Supply and Output Ports
- 1/8 NPT
- 1/4 BSPT
- 1/8 BSPP

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Type 3510/3520

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)
Up to 5 (.35) 20 (1.4)
>5 to 15 (35-1.0) 30 (2.1)
>15 to 30 (10-2.1) 60 (4.1)
>30 to 100 (20-1.69) 165 (11.4)
>100 to 150 (60-10.3) 200 (13.8)
>150 to 300 (100-20.7) 350 (24.1)
>300 to 600 (200-41.4) 650 (44.8)

Outs
Atmospheric Pressure Ranges
0.07, 0.35, 1.03, 2.07, 6.8, 10.34, 20.68, 34.47, 58.95 BAR
Vacuum Pressure Ranges
30" Hg, 150 PSIA (2.1 bar, 10.3 bar)
Forward Flow Capacity
1.25 SCFM (425 LPM)
Exhaust Flow Capacity
1.25 SCFM (158 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).
’y’ default selectable and configurable via Serial or Keypad Display interface
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 (0-80°C)
Media-Wetted Materials
Aluminum, copper alloys, nickel, bimetal, silicon, 316SS