Type 3511 & 3521

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Product Information
Model 3511 & 3521
Digital Electronic Controller

Includes FREE Software

CE

Features

- Single unit - integrated controller & booster
- High accuracy digital control of air pressure ±.5%
- Minimal air consumption at steady state pressure
- Shock resistant, position insensitive
- Weatherproof housing
- PC Programmable through MS Windows® based software
- Up to 8 devices can be connected on a single RS-485 line
- Accepts analog, PWM (Pulse Width Modulation) or Digital Comand Signal
- CE approved

Applications

- Gripper Control
- Welding Operations
- Actuator Control
- Machinery Automation
- Precision Robotics
- Tire Production & Test
- Web Tension
- Semiconductor Equipment
- Molding & Forming Operations

Operational 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
- Advanced microprocessor control
- A built-in air volume booster provides the 3511 with forward flow up to 19 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
- 4 digit display of output pressure available with keypad

ElectroPneumatics

MARSH BELLOFRAM®

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T-3511 & 3521 Digital Electronic Controller

SPECIFICATIONS

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Product Information
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PNEUMATICS

Output Pressure Ranges	0-150 psig (10.3 BAR)
Flow	14 SCFM (395 slpm) @ 100 psig supply 19 SCFM (536 slpm) @ 150 psig supply
Reverse Flow[1]	7 scfm (198 slpm)
Filtration	60 mesh screen built-in
Linearity (independent)	± .2% FS
Repeatability	± .2% FS
Accuracy	± .5% FS
Hysteresis	± .5% FS
Supply Pressure Range	110% max output pressure up to 200 psig max

ELECTRICAL

Supply Voltage	15± 10% VDC STD., 24± 10% VDC Consult Factory
Supply Current	80 mA standby 325 mA max
Command Signal	
Voltage	0-10 VDC
Current	4-20 mA

Other command signals selectable via keypad or RS-485 communications

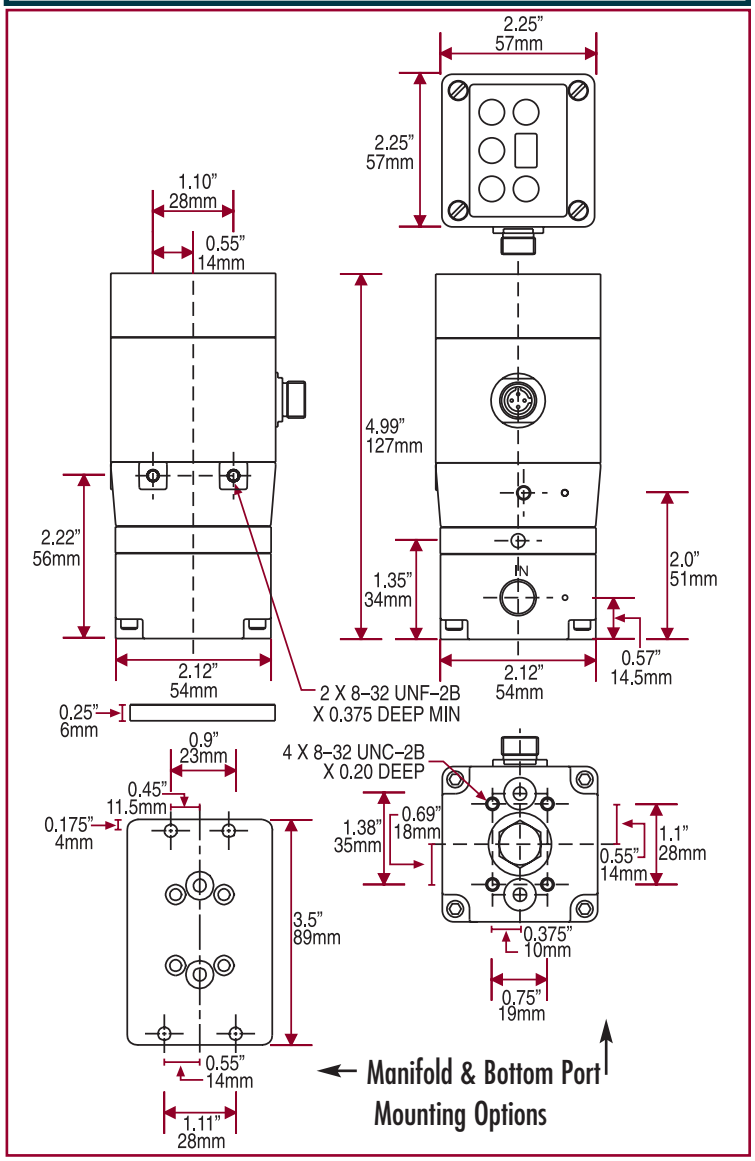
Analog Monitor Output	
Voltage	0-10 VDC

Other monitor signals viewable via keypad or RS-485 communications

ENVIRONMENTAL

Operating Temp	32° to 141° F (0° to 60° C)
Materials	
Wetted Parts	Aluminum, nickel, BUNA-N, 316 SS
Port Sizes	
Supply & Control Port	See ordering code
	1/4" NPT, BSPP, or BSPT
Gauge	1/8" NPT
Exhaust	No. 10-32 UNF Thread (manifold)
Weight	1.4 lbs. (0.7 kg)

[1]Specification based upon raising the output pressure 5 psig above a 20 psig setpoint.



HOW TO CREATE A 3511 or 3521 PART#

BASE MODEL NUMBER			COMMAND SIGNAL	OUTPUT PRESSURE RANGE			MOUNTING	PORT SIZE	CONNECTOR	OPTIONS	
5		1							1		
1 Single loop 2 Double loop	S Serial communication (RS-485) P Keypad Programming with display		E 0-10 V I 4-20mA field selectable ranges ◊	Please indicate the lower limit of output pressure range down to 0 psig ∞	G Gauge (psig) W Water column (H_2O)	Please indicate the upper limit of output pressure range up to 150 psig	P Pipe M Manifold Mount Optional bracket mounting available as an accessory	Input & Output Ports 0 Δ ¼" NPT 1 ¼" BSPT 2 ¼" BSPP	1 6 Pin Micro POWER CORDS must be ordered separately	0 0 No Options Consult Factory For Options	

Δ For manifold mount enter 0 for port size. ◊ Other command signals selectable via keypad or RS-485 communications.
∞ If lower limit of output pressure range is more than 1 digit, consult factory.

ORDERING EXAMPLE: 511PE2G115P0100- This is a single loop Type 3511 with keypad programming, calibrated for a 0-10 V command signal, a 2 to 115 psig output pressure range with pipe mounting, and 1/4" NPT ports and no options. (A 6 pin connector is standard.)

For more information please contact the Applications Department at 1-800-242-8428