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.

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

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

5	1			0			P		1		
											Loops
	1										1 loop
	2										2 loops
		1									
											Digital Interface
			S								Serial RS-485 (RS-232 and USB via converters)
			P								Keypad/display programmer
											Analog Control Signal
				E							0-10V
				I							4-20mA
											Lower Output Pressure
				0							Lower Limit of Output Pressure
											Pressure Units
					G						PSIG
					W						Inches of Water Column
											Upper Output Pressure
						005					5 PSIG
						015					15 PSIG
						030					30 PSIG
						100					100 PSIG
						150					150 PSIG Upper Limit
											Mounting*
							P				Pipe Mount
							M				Manifold-Mount
											Supply and Output Ports
								0			1/4 NPT
								1			1/4 BSPT
								2			1/4 BSPP
									1		
											Options
										00	None
										15	15VDC Supply

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

	Type 3511/3521	
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	5, 15, 30, 100, 150 PSIG	
	0.35, 1.03, 2.07, 6.9, 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 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	