

Co-Pilot

Type 1200 Pressure Controller



- ➔ Multiple adjustable set points
- ➔ Low power operation
- ➔ Failsafe setting on power failure
- ➔ Explosion proof housing
- ➔ Suitable for harsh environment
- ➔ Set point position feedback
- ➔ 316 Stainless steel body
- ➔ Inlet 316 SS filter
- ➔ Compatible with most regulators
- ➔ Compatible with any RTU
- ➔ Ideal companion to RECOR 325 CDR



Co-Pilot

Reliable Performance for Remote Locations

The Type-1200 is a motorized gas pressure regulator that provides precise control by converting a constant DC electrical signal to a variable pneumatic output. Explosion Proof, Nema 7X enclosure and stainless steel regulator construction allow the unit to operate in remote, hazardous area applications. Features such as low power consumption, power failure protection, position feedback and adjustable set points make the Type-1200 ideal for valve actuation applications on gas transmission and distribution pipe lines, commercial utilities and power plants.

The constant electrical signal provided to a reversible 24 VDC motor is used to accurately set the diaphragm controlled pressure regulator. This action converts the

constant DC signal to an adjustable pneumatic output. The unit consumes power only when a change in the pressure setting is required. The rest of the time the Type-1200 simply acts as a spring operated regulator. There is not the constant power draw that is associated with I/P transducers. The other advantage this technology brings is fail-safe operation. If there is a power failure, the regulated output pressure of the Type-1200, and therefore the valve that it is controlling, is locked in its last position. Typically an I/P transducer loses its output when it loses power causing the valve position to change. This does not happen with the Type-1200.

The Type-1200 also comes equipped with limit switches that control the minimum and maximum

set points. Motor burnout is prevented because these switches automatically stop the motor when the high or low set point is reached. Another set of limit switches that are included with the Type-1200 provide feedback for indication of high or low output setting. This informs the operator (remote or on-site) whether the valve being controlled is in an open or closed state.

Harsh, outdoor environments are no problem for the Type-1200. Besides being safe for hazardous areas, the housing of the Type-1200 is manufactured to withstand the forces of hostile environments. The stainless steel helps prevent corrosion and ensures long, uninterrupted operation. In addition, the stainless in-line filter protects against potential contamination in the supply line.

Specifications

Operating Range:	0-30psig (0-2.0BAR) or 0-60psig		
Flow Capacity:	5scfm (8.5m ³ /hr)		
Relief Capacity:	1.4scfm (2.35m ³ /hr) @ 5psig over downstream set point		
Air Consumption:	3.0scfh (.085m ³ /hr)		
Maximum Supply Pressure:	150psig (10BAR)		
Operating Temperature:	-40°F - +150°F (-40°C - +65°C)		
Weight:	6lb 4oz (2.8Kg)		
Ports:	1/4" NPT		
Electrical:			
Voltage	11vDC Minimum, 26vDC Maximum		
Current	60mA		
Power Consumption	1.4 watts (maximum)		
Full Range (0-30psig):	Motor Speed	12vDC	24vDC
Adjusted Time in Minutes:	1 RPM	17	8.5
	8 RPM	2.2	1
Operation:	Reversing voltage polarity controls motor direction		

