Pneumatic Indicator Controller

Model SG80

Overview

 The SG80 Pneumatic Indicator Controller is used for pressure or temperature control in pneumatic valve systems. This complete stand alone controller offers good dynamic response for proportional or proportional and integral control forms.

Typical applications

 Pressure or temperature control for use with pneumatic valve systems

Key benefits

- Complete stand alone controller
- Reduced system cost
- Good dynamic response
- Easily removable components
- Action reversible
- Offers both proportional and proportional/ integral control forms



Model SG80



Specification

Body materials	Die cast aluminum with anti-corrosive paint						
Cover	ABS						
Degree of protection	IP54						
Mounting	Wall or panel						
Pneumatic connections	$^{1}/_{4}^{\prime\prime}$ NPT with fittings for 4mm (0.16inch) pipe size						
Supply air pressure	20 ± 1.5 PSI	1.4 ± 0.1 bar					
Output	3 ÷15 PSI	0.2÷1 bar	0.2÷1 bar				
Adjustable control parameters	P.Band 200%	*Reset time	*Reset time >0>10 rep/min				
Steady state air consumption	Air supply 20 PSI	1.4 bar	0.13 Nm³/h				
Maximum air delivery	Air supply 20 PSI	1.4 bar	2.6 Nm ³ /h				
Accuracy	<1%						
Hysteresis	<0.5%						
Non linearity	<0.5%						
Repeatability	<0.5%						
Permissible ambient temperature	-20°C to 80°C	-4°F to 176	-4°F to 176°F				
Weight	3 kg	6.6 lbs					

^{*}For P+I controller only

Vibration

Lloyds requirement for off-engine equipment

5Hz - 13.2Hz ±1mm displacement 13.2Hz - 100Hz 0.7g acceleration

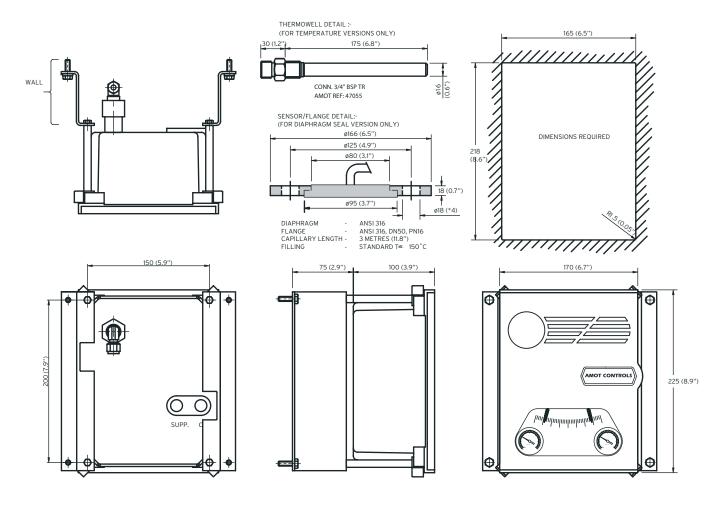
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Application



The AMOT pneumatic G valve system incorporates a pneumatically actuated three-way control valve with the SG80 pneumatic indicator controller which can be panel or wall mounted. The pneumatic G valve system is ideal when there is a lack of electricity, when a fail-safe system is needed, or in a hazardous area installation.

Dimensions



Dimensions in mm

How to order

Use the tables below to select the unique specification of your SG80.

Example Code	SG80	1	2	3	W	Code Description	
Basic Model	SG80					Model and Revision level	
						Control Action	
Control action 1					Proportional (P)		
					Proportional and integral (P + I)		
						Pressure or temperature ranges	
		2			0/2.5 (0/36)		
		3			0/4 (0/58)		
Pressure bar (psi) temperature			4			0/6 (0/87)	
			5			0/10 (0/145)	
			6			0/16 (0/232)	
ranges °C (°F)		7			0/25 (0/363)		
		8			0/40 (0/580)		
		K			0 to 70°C (32 to 158°F)		
		L			0 to 100°C (32 to 212°F)		
		М			0 to 150°C (32 to 302°F)		
			Ν			0 to 250°C (32 to 482°F)	
						Measuring element and connections	
Measuring element and connections			0		Standard temperature 2m capillary 3/4 BSP male		
			1		Special temperature 6m capillary 3/4 BSP male		
						Pressure 1/2 BSP male to 6mm tube	
				3		Diaphragm seal	
						Mounting options	
Mounting options					Wall		
				Р	Panel		

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