spirax sarco

PN600 Series
Pneumatic Controllers

Description
The PN600 series pneumatic controllers provide temperature or pressure control providing a 0.2 bar to 1 bar output signal with proportional (plus manual reset) or proportional plus integral control action. An optional stainless steel pocket type W30S is available for use with tempertature sensors.
The range of pneumatic controllers can be used in conjunction with PN5000 and PN6000 series linear actuators and PP4 pneumatic positioners.

Available types
Temperature control

Model	Control function	Scale range
662-T5-M5*	Proportional (+ Manual reset)	0 - 100 °C
662-T5-M5	Proportional (+ Manual reset)	50 - 150 °C
662-T5-M5*	Proportional (+ Manual reset)	25 - 125 °C
662-T5SY-M5	Proportional (+ Manual reset)	25 - 125 °C
663-T5-M5*	Proportional + Integral	0 - 100 °C
663-T5-M5	Proportional + Integral	50 - 150 °C
663-T5-M5*	Proportional + Integral	25 - 125 °C
663-T5SY-M5	Proportional + Integral	25 - 125 °C

T5 = Nitrogen filled sensing bulb and capillary

SY = Sensing bulb for sterile applications

M5 = 5 metres capillary tube (*Option of 10 metres - Suffix 'M10')

Pressure control

|		
622	Proportional (+ Manual reset)	0 - 7 bar
622	Proportional (+ Manual reset)	0 - 20 bar
623	Proportional + Integral	0 - 7 bar
623	Proportional + Integral	0 - 20 bar

Other options available include:-
Pneumatic receiver for 0.2 to 1 bar (or 3 to 15 psi g) input signal.
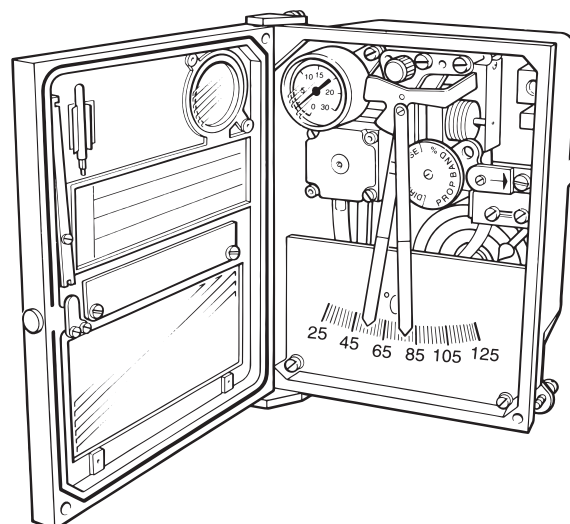Electromechanical receiver for 4-20 mA, 0-10 Vdc, RTD Pt100 or thermocouple input signal.

Other scale ranges available:-

Pressure (bar)	Scale span options up to 0 to 500 bar
Temperature (°C)	Scale span options for:- 50, 75, 100, 150, 200, 300 and 400 °C
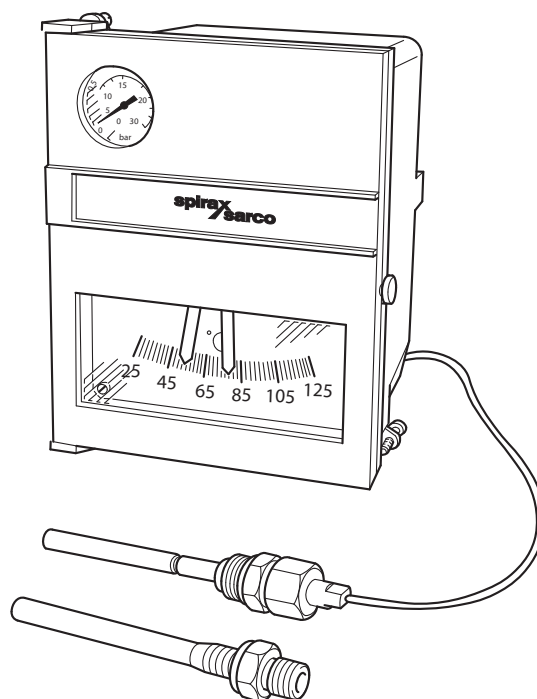
Optional pocket type W30S

Measuring elements

Pressure

Bourdon tube	AISI 316L stainless steel
Connection	¼" BSP
Maximum pressure	+25% of scale range

Temperature

Bulb and capillary	AISI 316L stainless steel
	- Cylindrical bulb for liquids
	- Sanitary bulb for sterile applications
	(Option available with spiral bulb for air/gas)
Bulb connection	¾" BSP
Capillary length	5 metres
	10 metres (in some ranges)
	(Other options available)
Max. measured temperature	+25% of scale range

Pocket - Type W30S (optional)

Material	AISI 316L	Stainless steel
Connection	½" BSP	
Maximum pressure	PN40	

Technical data

Controller

Enclosure rating	IP54 (Standard) IP55 (Optional)	
Scale length	100 mm	
Pointers	Measured value	- black
	Set point	- red
Gauges	Output signal pressure (bar/psi g)	
Control mode	Proportional (5-200% of scale range) Integral (0.1 to 20 repeats per minute)	
Output signal	0.2 - 1 bar	
Control action	Direct or reverse action - Field reversable	
Set point adjustment	Manual adjustment	
Accuracy	1% of range span	
Sensitivity	0.2% of range span	
Repeatability	0.5% of range span	
Linearity	0.5% of range span	
Air supply	1.4 bar	
Air consumption	0.2 Nm³/h (average)	
Air connections	¼" NPT	
Ambient temperature limits	-15 °C to 65 °C	
Mounting	Wall or flush panel mounted	
Weight	3.5 kg	

Optional pocket type W30S
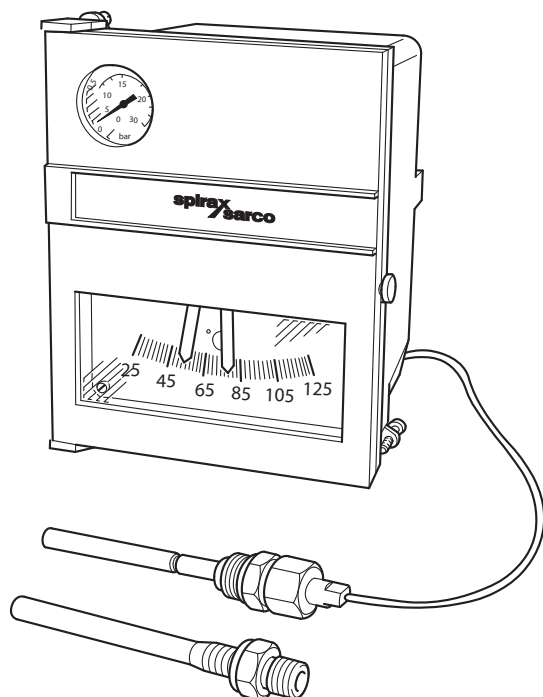
PN600 Series Pneumatic Controllers
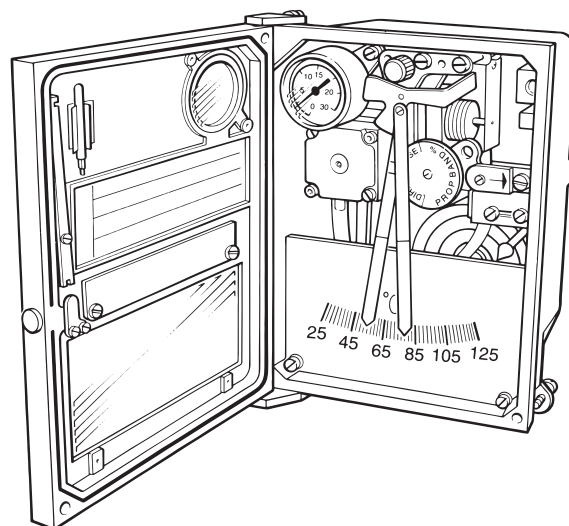
Dimensions (mm)

Controller

A	B	C	D
202	144	136	17
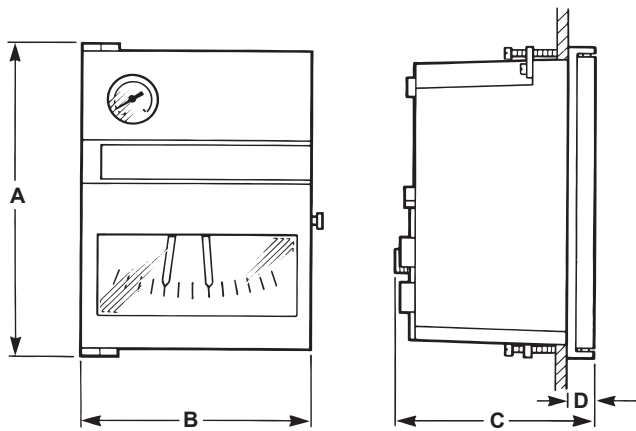
Temperature sensing bulb

E	F	G
200	120	13

¾" BSP
¾" BSP
No groove on SY sterile bulb
Connector
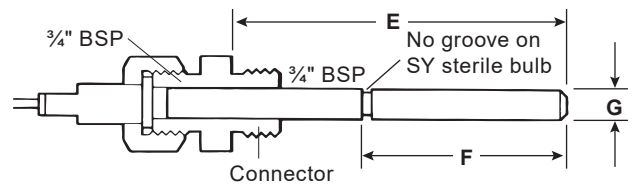
Panel mounting cut-out

H	J
16	188

Pocket

K	L
16	210

½" BSP
¾" BSP

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