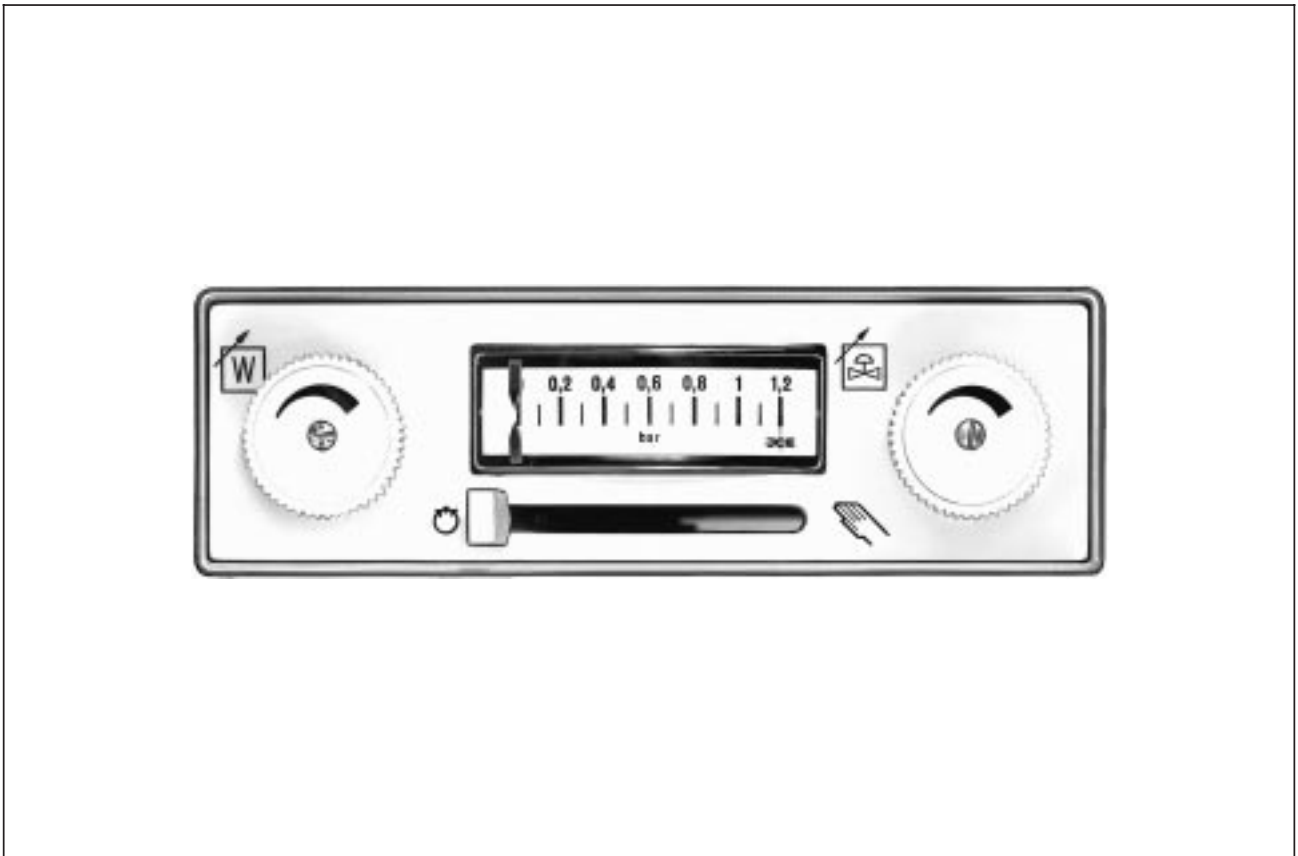


## PM960 Pneumatic Sub-panel



Pneumatic Sub-panels are used in conjunction with pneumatic Standard Controllers for generating set point, manual output, and for auto-manual transfer switching.

### FEATURES

- Pneumatic circuitry cast into base plate
- Many versions available, including Manual Loader with process variable indicator
- Set point control knob secures to prevent accidental alteration

**TECHNICAL DATA**

**Pneumatic Sub-panel**

Front finish . . . . .	Bezel grey RAL 7037 Facia grey RAL 7035
Frontal dimensions . . . . .	144 x 45 mm
Signal range . . . . .	0.2 to 1 bar, 3 to 15 psi, 20 to 100 kPa
Supply air . . . . .	1.4 ± 0.1 bar/20 ± 1.4 psi
Protection class . . . . .	IP 20 (DIN 40 050)
Manual-Auto-switch . . . . .	Flat slide valve

**Mounting**

Type of mounting . . . . .	Panel mounting
Mounting position . . . . .	NL 90 ± 5°, other position specify with order
Mounting depth . . . . .	approx. 120 mm (without tube fittings)
Pneum. connections . . . . .	internal thread 1/8-27 NPT

<b>Application class</b> . . . . .	B <sub>x</sub> (DIN IEC 654 Part1)
Ambient temperature range	-20 to +70 °C
Humidity . . . . .	≤ 75 %, no condensation
Storage temperature range	-30 to +70 °C

**Pressure Indicator (built in)**

Version . . . . .	Single-or double indicator
System . . . . .	Bourdon tube
Indication range . . . . .	0 to 1.2 bar/0 to 18 psi
Scale length . . . . .	44 mm
Error limit . . . . .	≤ 1 % f. s. d.
Cross-matching error . . . . .	≤ 0.5 % f. s. d. (Double indicator)

**Pneum. Signal Generator (built in)**

Output adjustable . . . . .	0 to supply air pressure
Air consumption . . . . .	≤ 100 l/h per signal gen.
Supply air dependency . . . . .	≤ 0.2 %/0.1 bar
Load effect (meas. at 0.6 bar)	+3 % for 70 l/h exhaust. flow -3 % for 250 l/h delivered flow
Max. air output . . . . .	± 1700 l/h
Temperature effect . . . . .	≤ 0.3 %/10 K

**Materials**

Bourdon tube . . . . .	Bronze
Other components . . . . .	Al, brass, zinc-plated steel

**Weight**


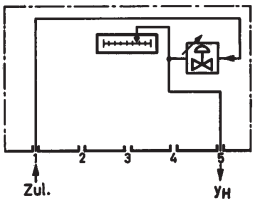
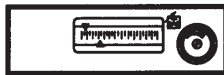
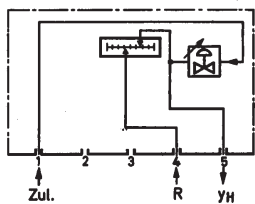
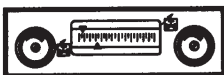
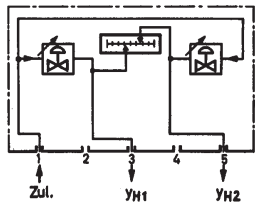

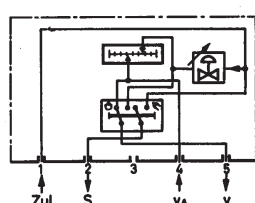

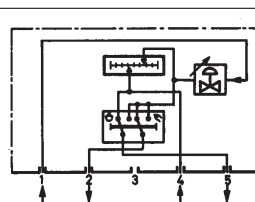

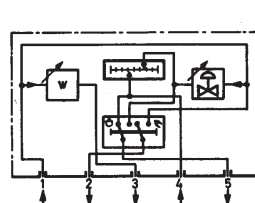
Pneum. Subpanel . . . . .	~ 2 kg
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Technical data obtained from measurements made under standard reference conditions

**MODEL CODES**

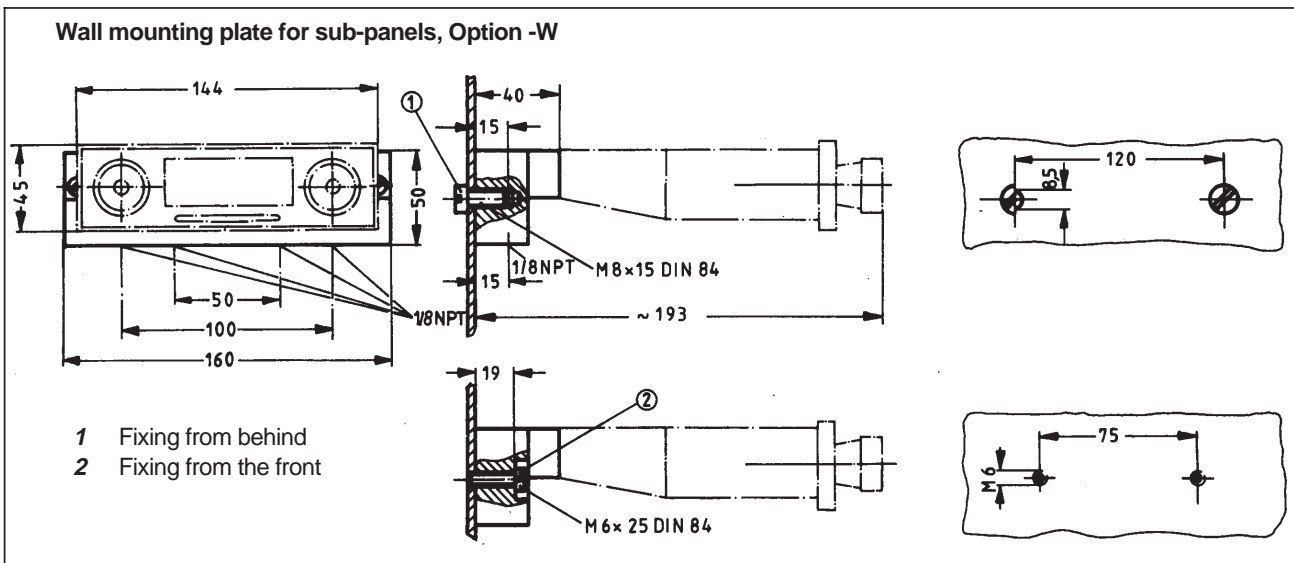
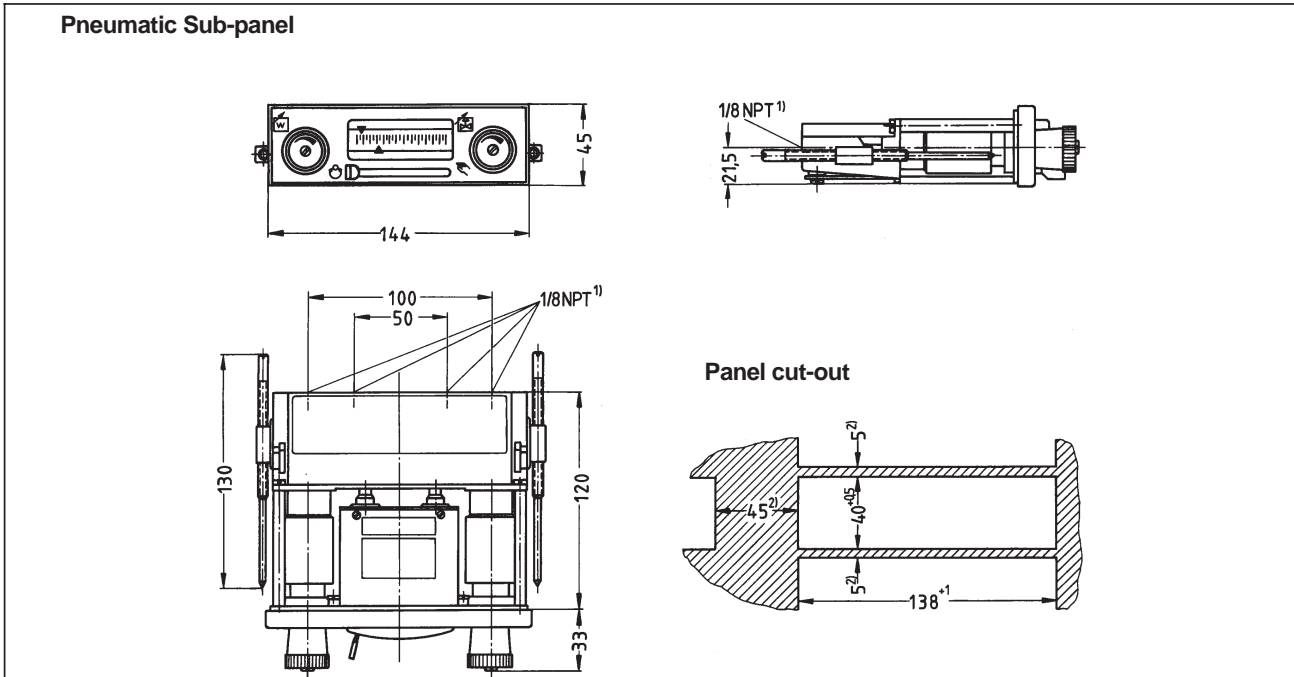
<b>Pneumatic Sub-panel</b>	<b>PM960</b>			
<b>Version</b>				
Manual Loader . . . . .	-A			
Manual Loader with process indicator . . . . .	-B			
Double Manual Loader . . . . .	-C			
for slave control . . . . .	-D			
for Slave control, controller with PI switch . . . . .	-E			
for local set control . . . . .	-F			
<b>Indicating Range (Scale)</b>				
0 - 1.2 bar . . . . .			1	
0 - 18 psi . . . . .			2	
0 - 120 kPa . . . . .			3	
<b>Options</b>				
Wall mounting plate . . . . .				-W
Tag No. Labeling with inscription . . . . .				-L
<b>Example</b>	PM960	-A	1	-WL
Tube fittings	see EOO9001			

**FUNCTIONAL TABLE**

Version	Front view	Circuit diagramm	Pneum. connections	Model Code
Manual Loader			1 Zul. Supply air 5 yH Manual output	- A
Manual Loader with process indicator			1 Zul. Supply air 4 R Return signal 5 yH Manual output	- B
Double Manual Loader			1 Zul. Supply air 3 yH1 Manual output 5 yH2 Manual output	- C
for slave control			1 Zul. Supply air 2 S Switch signal 4 yA Controller output 5 y Output	- D
for slave control, controller with PI switch			1 Zul. Supply air 2 yF Working point signal 4 yA Controller output 5 y Output	- E
for local set control			1 Zul. Supply air 2 S Switch signal 3 w Setpoint 4 yA Controller output 5 Y Output	- F

The Sub-panel is supplied with 2 panel mounting brackets

**DIMENSIONS**



- 1) All connections which are not utilised are factory blanked of with plugs.
- 2) When used in conjunction with Indicators and Recorders, the panel cut-out dimensions shown in Type sheet AP 213 or SP227 should be observed.

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