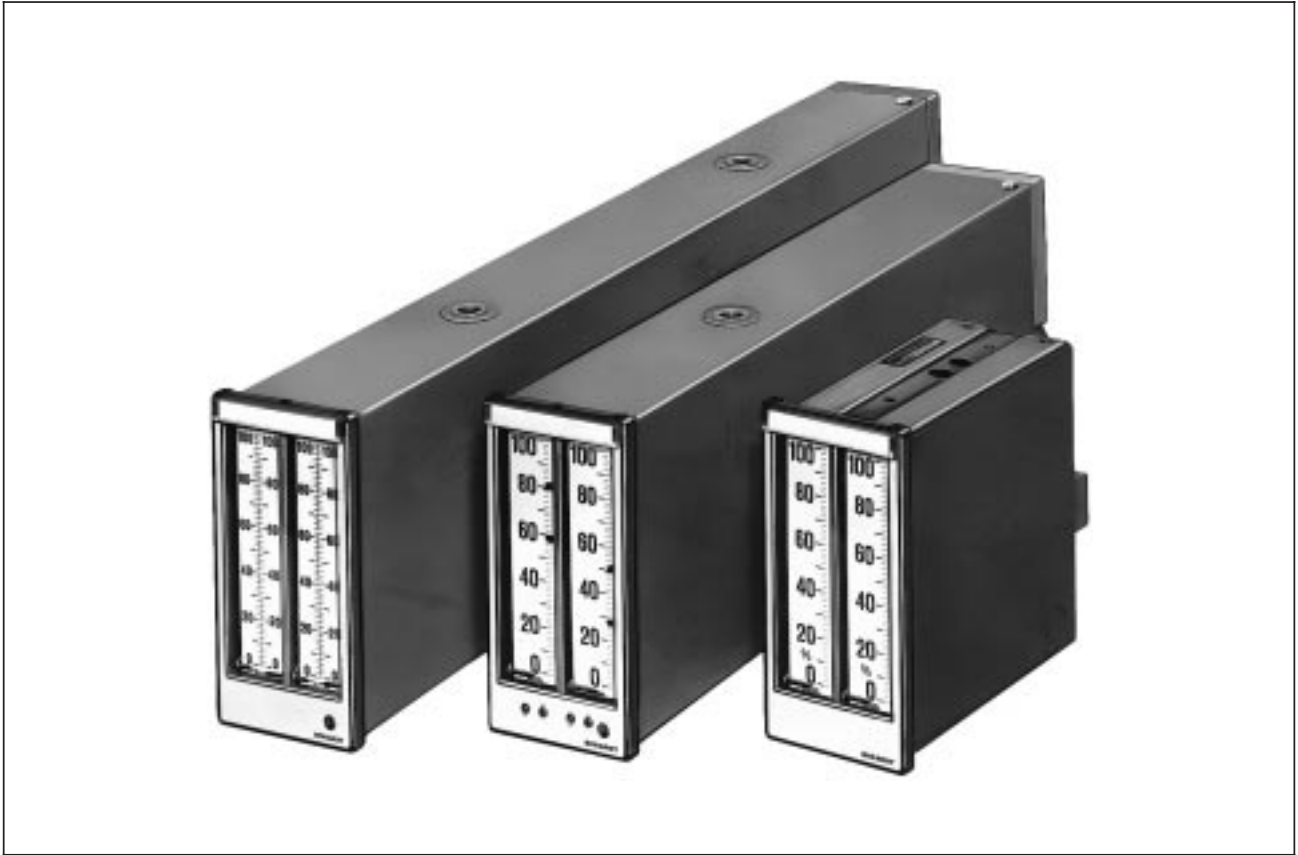


AP456 Pneumatic Indicator Compact P



Indication of standard pneumatic signals, for panel mounting in the compact P system

FEATURES

- Flat scale indication
- Bellows measuring systems
- 2 or 4 measuring systems
- Inductive limit switches Min and Max, closed circuit system
- Individual or shelf mounting
- Mounting and wiring in advance available
- Short model 175 mm long

TECHNICAL DATA

Frontal dimensions ¹⁾ 72 x 144 mm
 Length 604 / 465 / 165 mm
 Bezel grey RAL 7037
 Facia grey RAL 7035

Input

Standard signal. 0.2 to 1.0 bar, 3 to 15 psi,
 20 to 100 kPa

Measuring system

Nos. of measuring systems. 2 or 4
 Scale 100 mm long, replaceable
 Indicating range 0 to 100, others available
 Graduation linear / root, others available
 Error limit class 0.6 resp. 1 ²⁾
 Temperature influence ≤ 0.2 %/10 K

Inductive limit switch

Output Change of current consumption ³⁾
 Method of operation closed circuit system
 Switching points 0 to 100 %, continuous adjustable
 Function Min - Max / Min - Min / Max - Max
 Switching difference ≤ 0.5 %
 Internal inductance about 20 µH
 Internal capacitance about 20 nF
 Supply voltage 8 V DC (R_i ~ 1 kΩ)
 Current consumption
 Vane covered ≤ 1 mA
 Vane not covered ≥ 3 mA

Weight

CP 600/CP 400/CP 200 ~ 3.5 kg/~ 3.0 kg/~ 2.0 kg

Ambient conditions

Application class. IEC 654
 Ambient temperature range -20 to +70 °C
 Storage temperature range. -30 to +70 °C
 Adm. rel. humidity. ≤ 75 %, no condensation permissible
 Protection class IP 20 acc. to DIN 40 050

Installation

CP 600 / 400 individual housing or shelf
 CP 200 without housing
 Type of mounting panel
 Panel mounting bracket acc. to DIN 43 834
 Mounting Position NL 90 ± 5 °; other position specify with order
 Pneumatic connections. internal thread
 DIN 45 141-Q 1/8-27 NPT
 Electrical connections screw terminals
 for 0.5 to 2.5 mm² leads/
 flat pins 6.3 x 0.8

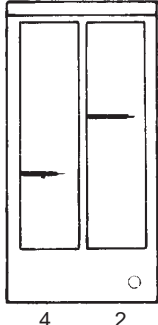
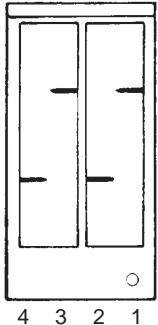
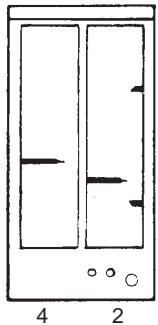
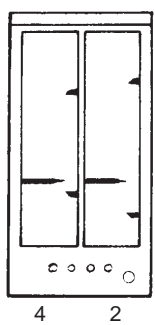
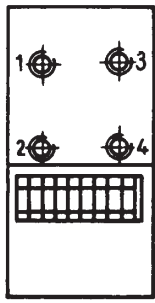

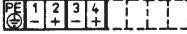
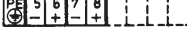

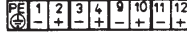
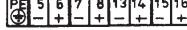
Inscription

Nameplate 62 x 7 mm, replaceable
 Inscription as specified
 Height of characters max. 4 mm in 1 line / 2 mm in 2 lines
 Number of char. per line max. 22 with spacing 2.6 mm

Materials

Measuring elements Beryllium-copper
 other internal components Aluminum, brass, zinc plated steel
 Individual housing Steel, plastic coated
 shelf varnished steel

Indicator Version

<p>2 single Code AP456-..1...</p>  <p>4 2</p>	<p>2 double Code AP456-..4...</p>  <p>4 3 2 1</p>	<p>2 single with 2 limit switches Code AP456-..2...</p>  <p>4 2</p>	<p>2 single with 4 limit switches Code AP456-..3...</p>  <p>4 2</p>	<p>Pneumatic connectors</p> 
<p>(1/2/3/4 pneumatic connectors)</p>				
<p>AP456-..2...</p>				<p>AP456-..3...</p>
<p>Electrical connectors</p>				
<p>Indicator 2</p>				
Min - Max				
Min - Min				
Max - Max				
<p>Indicator 2 Indicator 4</p>				
Min - Max				
Min - Min				
Max - Max				

1) Nominal dimensions acc. to DIN 43 700
 2) Class 0.6 for indicating range 0 to 90 %, class 1 for indicating range 90 to 100 % to DIN 16 310, or accuracy to SAMA-Standard PMC 20.1-1973

3) For connection to transistorized relay, e. g. Pepperl & Fuchs WE 77/Ex2

MODEL CODES

Pneumatic Indicator Compact P		AP456	
Version			
compact 200	-2		
compact 400 / 600	-4		
Measuring systems			
2 single systems	1		
2 single systems, 1 MS. with contact	2		
2 single systems, 2 MS. with contact	3		
2 double systems	4		
Signal Range			
0.2 -1.0 bar	1		
3 - 15 psi	2		
20 - 100 kPa	3		
Indicating Range System 1			
without		O	
0 - 10 linear (a)		A	
0 - 10 square (a)		B	
0 - 100 % linear (a)		C	
0 - 100 % square (a)		D	
to be specified (acc. standard list) (a)		E	
acc. customer specification (a)		F	
Indicating Range System 2			
0 - 10 linear		A	
0 - 10 square		B	
0 - 100 % linear		C	
0 - 100 % square		D	
to be specified (acc. standard list)		E	
acc. customer specification		F	
Indicating Range System 3			
without		O	
0 - 10 linear (a)		A	
0 - 10 square (a)		B	
0 - 100 % linear (a)		C	
0 - 100 % square (a)		D	
to be specified (acc. standard list) (a)		E	
acc. customer specification (a)		F	
Indicating Range System 4			
0 - 10 linear		A	
0 - 10 square		B	
0 - 100 % linear		C	
0 - 100 % square		D	
to be specified (acc. standard list)		E	
acc. customer specification		F	
Alarm contact			
without		A	
El. inductive, normally closed (b)		B	
Contact function System 2			
without			0
Min - Max (b), (d)			3
Min - Min (b), (d)			4
Max - Max (b), (d)			5
Contact function System 4			
without			0
Min - Max (b), (d), (e)			3
Min - Min (b), (d), (e)			4
Max - Max (b), (d), (e)			5

MODEL CODES (continued)

Options												
Tag. No. Labeling with inscription	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-L
el. inductive Contact in fail-save version (c)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-2
2 Contacts	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-4
4 Contacts	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-4
only for Version 2												
Electr. connection: flat pins	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-F
Electr. connection: screw terminals	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-S
Example	AP456	-4	2	1	O	C	O	C	B	3	0	-L
Footnotes	Terminal block			see EIC2312								
(a) Not available with Meas. syst. Code 1, 2, 3	Housings / Shelves			see EIC2312								
(b) Not available with Meas. syst. Code 1, 4	Tube fittings			see EOO9001								
(c) Only one technique per Instrument												
(d) not available with Alarm contact Code A												
(e) not available with Meas. syst. Code 2												

DIMENSIONS

Individual in-line mounting
CP 600 / CP 400

Shelf
CP 600 / CP 400

When installing close up to each other, fit panel mounting brackets top and bottom as for individual housings.

CP 200

Panel cut-out

Individual housing or Indicator CP 200
Cut-out dimensions according to DIN 43 700
Side-by-side mounting in a common panel cut-out is possible. The overall cut-out length is accordingly the sum of the nominal dimensions (72 mm) of each unit involved, less 4 mm (tolerance + 1mm)

Nominal dimensions according to DIN 43 700

* Deleted when installing close up to each other. The overall cut-out length is therefore the sum of the "A" dimensions for each shelf unit plus 6 mm allowance between each adjoining shelf unit.

Instr. per shelf	Dim. A
2	141
3	214
4	287
6	433
8	579
9	652

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