

## PC13 /15/18 ELECTROPNEUMATIC CONVERTERS

Series of converters used for the processing of a current signal into a pneumatic signal for measuring or positioning. Used as connection units for switching from electric measuring devices to pneumatic controllers or electric control devices pneumatic valve. Operating on the principle of balance of power; The received signal 4 ... 20 mA, 0 ... 20 mA or 1..5 V, 0..10 V generates a signal proportional pneumatic output of 3 ... 15 psi (0.2 ... 1 bar), 2 ... 20 psi (0.14 ... 1.4 bar) or 4 (6) ... 30 psi (0.3 ... 2 bar), with a supply pressure which varies from 25 to 45 psi (1.7 ÷ 3 bar).



Models:

- PC13** Back panel mounting. Suitable as a unit of connection between electronic devices that regulate and linear pneumatic actuators. Suitable any type of servo control by changing the output signal of 3 ÷ 15, 2 ÷ 18 or 20 psi
- PC15** On field Current / Pressure suitable as a connecting unit between electronic devices that regulate and linear pneumatic actuators. Also available in Intrinsically safe (Ex ia IIC T6, T5 - ATEX - 94/9 / EC-: II 1 G) mod. PC15.ATEX
- PC18** On field electropneumatic converter. The input signal 4 to 20 mA generates a pneumatic output signal adjustable 0.5 ... 8 bar. It is also available in a version Intrinsically safe (Ex ia IIC T6, T5 - ATEX - 94/9 / EC-: II 1 G) mod. PC18.ATEX

### TECHNICAL SPECIFICATIONS

	PC13	PC15	PC18
Cover:	ABS	Polycarbonate	Aluminum
Base:	ABS	Aluminum	Aluminum
Protezione:	IP20	IP55	IP55
Mounting:	35 mm DIN rail		
Pneumatic connections:	4x1 flex pipe outside diameter 6mm	1/4" NPT	1/8" NPT
Electric connections:	2-wire internal terminal Ø 0.5 to 1,5 mm		
Input:	4 ÷ 20 mA		
Air supply:	25 psi / 1.7 bar 30 psi / 2 bar 45 psi / 3 bar		9 bar max
Output:	3÷15 (2÷18)* psi 2÷20 psi 4÷30 psi		Min 0...4 bar max 0...8 bar
Trimmer:	+/- 0.5 psi		
Linearity error:	< 1%		< 2 %
Hysteresis error:	< 0,5%		<0,8 %
Repeatability error:	< 0,2%		< 0,2 %
Air consumption	0.15 Nm3/h @ 25 psi		0.4 Nm3/h @ 9 bar
Flowrate:	2.6 Nm3/h @ 25 psi supply		8.5 Nm3/h @ 9 bar
Operative/Storage temperature:	-20...+70°C / -30...+80°C		
Weight:	260 g	0.8 kg	1.5 kg



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