

ELECTRO-PNEUMATIC CONVERTER

DATA SHEET

ZLC

The electro-pneumatic converter installed in site converts a 4 to 20mA DC operation signals from an electronic controller into proportional 19.6 to 98.1 kPa {0.2 to 1.0kgf /cm²} pneumatic signals for transmitting to pneumatic positioner, or operating pneumatic final control elements such as diaphragm valves, etc.

FEATURES

- High conversion accuracy The guaranteed conversion accuracy is within 0.75%.
- Various types
 Flame-proof type, intrinsically safe explosion-proof type, split range type, etc. are available.
- 3. A low input resistance of 200Ω permits two converters to simultaneously operate.



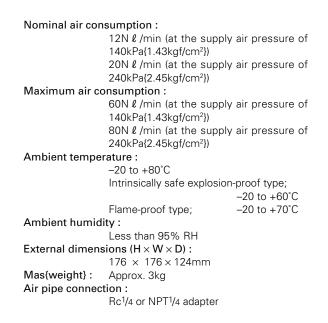
SPECIFICATIONS

Input signal :	4 to 20mA DC, 4 20mA DC	to 12mA DC or 12 to	
Input resistance : Approx. 200Ω (at 20°C) Accuracy rating : ±0.75% of full range Hysteresis : 0.5% of full range Response time : Approx. 0.7 sec (90% time of full range when the load capacity ia 0.5 ℓ) Air supply pressure and output signal :			
	Air supply pressure [kPa] {kgf/cm ² }	Output signal [kPa] {kgf/cm²}	
	140 {1.43} 240 {2.45}	19.6 to 98.1 {0.2 to 1.0} 39.2 to 196.1 {0.4 to 2.0}	
Output signal pressure gauge :			
As specified by the customer JIS class 3			
with the graduation angle of 270°			
Input/output operations :			
As specified by the customer Normal action;			

The output signal level increases as the input signal level increases.

Reverse action;

The output signal level decreases as the input signal level increases.

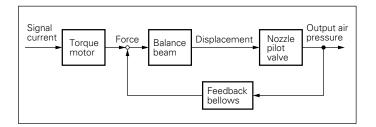


Fuji Electric Systems Co., Ltd.

ZLC

Conduit connection : G1/2 Waterproof structure : Splash proofing (JIS C 0920) Explosion-proof structure : Intrinsically safe explosion-proofing (JIS i3nG5) Flame-proofing (JIS d2G4) Finish color : Silver (epoxy resin coating) Acid and alkali-proofing treatment : Mounting U-bolts, nuts and washers made of stainless steel are used upon request Mounting method : Connected to pipe 50A (2B) or mounted on the wall.

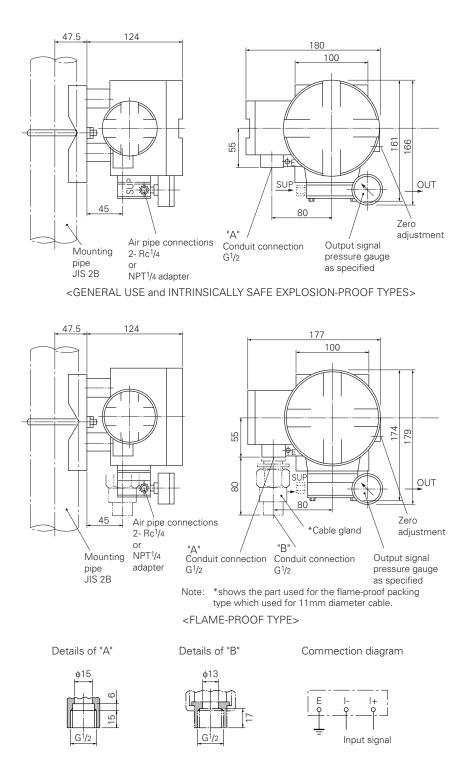
FUNDAMENTAL BLOCK DIAGRAM

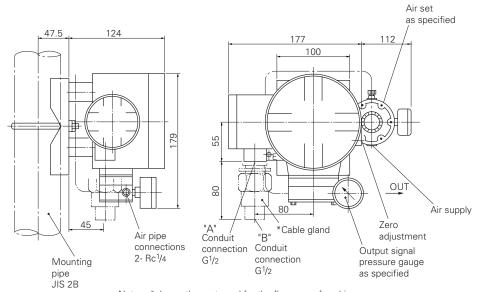


CODE SYMBOLS

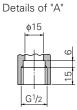
1234567	8 9 10 11		
ZLC	5 -	Description	
1 2 3		Input signal 4 to 20mA DC 4 to 12mA DC 12 to 20mA DC 12 to 20mA DC C or F in 5th digit is not available	
A C D		Output signal: input/output operation: air supply pressure 19.6 to 98.1 kPa (normal action) 140kPa {0.2 to 1.0kgf/cm²} {1.43kgf/cm²} 39.2 to 196.1 kPa (normal action) 240kPa {0.4 to 2.0kgf/cm²} {2.45kgf/cm²} 98.1 to 19.6 kPa (reverse action) 140kPa {1.0 to 0.2kgf/cm²} {1.43kgf/cm²}	
F		196.1 to 39.2 kPa (reverse action) 240kPa {2.0 to 0.4kgf/cm²} {2.45kgf/cm²}	
ү А В С		Explosion-proof structure For general use (Non-explosion-proof) Intrinsically safe explosion-proof structure (JIS i3nG5) Flame-proof structure (JIS d2G4 conduit pressure-resisting screw-coupled type lead in system) Flame-proof structure (JIS d2G4 flame-proof packing connection type)	
0 1		Output signal pressure gauge Non provided Provided	
	0 1	Treatment For general use Acid and alkaliproof treatment	
	Y A	Air set Non provided Provided	
	Y A	Air pipe connection RC 1/4 NPT 1/4 adapter	

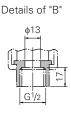
OUTLINE DIAGRAM (Unit: mm)













Commection diagram

Input signal

RELATED DEVICES

Electro-pneumatic positioner Diaphragm type control valve Opener (FXZ2 type)

ORDERING INFOMATION

- 1. Product name
- 2. Code symbol
- 3. Other requirements

▲ Caution on Safety
 *Before using this product, be sure to read its instruction manual in advance.

Fuji Electric Systems Co., Ltd.

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