

## P/I TRANSMITTERS & CONVERTERS TYPE 68

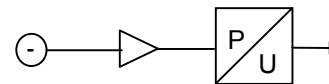
### FEATURES

- DIN rail or surface mounting
- Weatherproof and Uses non-critical power supplies
- A wide range of pressure inputs available

### GENERAL DESCRIPTION

These instruments convert pneumatic pressure into electrical signals for use with data loggers, computers and microprocessors.

The Type 68 is a two wire pressure/current device Use only non-critical power supplies and can be supplied weatherproof to IP65.



Functional Symbol

### TECHNICAL DATA

#### ELECTRICAL

##### Type 68(P/I):

- Supply Voltage 9-30V continuous
- Output 4-20mA
- Voltage drop 9V min. (across unit)
- Load resistance 750ohms Max. (24V supply)

#### ACCURACY

- Setting Error +/-0.2% FS Max.
- Hysteresis, Linearity Repeatability Typically +/-0.15% +/-0.3%max.
- Power Supply Sensitivity +/-0.05% FS/V Max
- Temperature Coefficients (over range 0 to 50°C)
  - Zero <+/-0.025% FS/°C
  - Span <+/-0.025% FS/°C
  - Stability <+/-0.025 over 6 months
- Response Time <10ms for 95% step output
- Range and Zero Controls +/-10% FS(minimum adjustment)

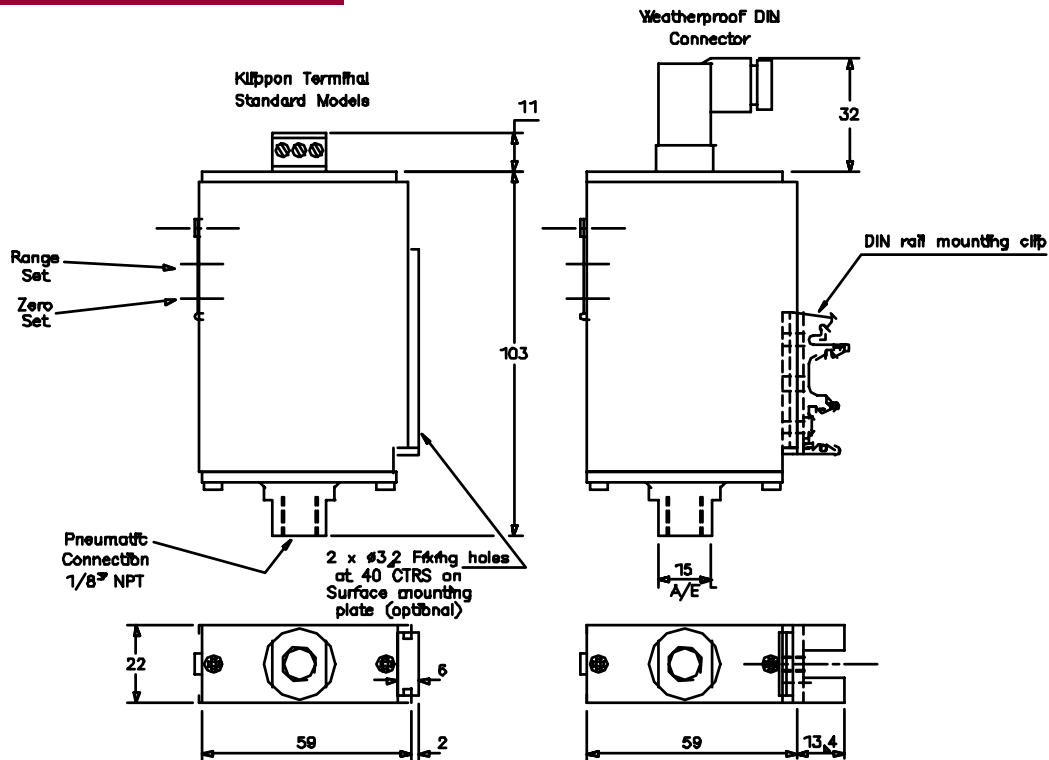
#### PHYSICAL

- Operating Temperature -10°C to +60°C
- I.P. Rating IP54 (IP65 option available)
- Electromagnetic Compatibility Compliant and CE marked in accordance with the EC E.M.C. directive. Tested to standards: BS EN50082-2: 1995 BS EN50081-2: 1994
- Material of Construction Casing: extruded aluminum, zinc diecast end plates; Nitrile diaphragms. Transducer: composite construction, mainly nickel, aluminum. Kovar, silicon rubber/gel. PCB: epoxy glass fibre
- Mass 200g
- Mounting (1) DIN rail. clips fit TS32 and TS35 rail (2) Direct pipe mounting
- Electrical connection Standard - Klippon terminal block to accept cables upto 2.5mm<sup>2</sup> Weatherproof - 16mm square connector to DIN43650 to accept cable upto 6mm dia with conductors of 0.75mm<sup>2</sup>

#### PNEUMATIC

- Air Supply Dry, non corrosive air or gas. The units are not suitable for continuous liquid exposure
- Air Consumption Nil
- Pressure Ranges See ordering information
- Over pressure At least 100% with negligible calibration error, except for 10bar(150psig) models which are 13.5bar (200psig) maximum
- Connections 1/8" NPT female

## INSTALLATION DIAGRAMS



## ORDERING INFORMATION

P/I TYPE 68

Range	Standard	Weatherproof
3-15psig	53680100	53680110
0-150psig	53681500	53681510
0-100psig		
0-100mbar		53689610
0-200mbar		53689310
0.2-1bar	53682100	53682110
0-4bar	53683300	53683310

### Note:

1. Other pressure ranges between 50mbar and 10bar are available to order. Please consult factory for availability
2. All models supplied complete with DIN rail mounting clip and mounting plate.
3. A range of models with the temperature compensation -20°C to +40°C are available for natural gas applications to special order.

## CERTIFICATION

All units are individually tested and a test certificate is supplied with every unit.

# WatsonSmith

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