

4B 48 / 4B 96

FORCE, PRESSURE and DISPLACEMENT TRANSDUCERS INDICATOR with INPUT for STRAIN-GAUGE or POTENTIOMETER



Main features

- Strain-gauge or potentiometer input configurable by faceplate
- Sensor supply check
- Easy to calibrate with sensitivity auto-ranging
- Protected by a personal code
- Configurable by serial link
- Internal linearisation for engineering units
- Labels provided for the more common physical units

Position indicators

GENERAL

Main applications

Food processing equipment

Extrusion lines

Rubber presses

Weight indicators

Pressure indicators

Test benches

Microprocessor based indicator in both 48x48 (1/16 DIN) and 96x48 (1/8 DIN) formats manufactured with SMT. The instruments have a lexan membrane faceplate (guaranteed to IP65) which has 3 keys, a 3-digit display for the 48x48 format or a 3 / 4 digit display for the 96x48 format, and 3 indicating LED's for the output statuses.

The input signal can be selected from a wide range of sensors:

- Potentiometer (minimum 100Ω)
- Load cell with sensitivity autoranging between 1,5 and 3,3mV/V
- Strain-gauge pressure sensor

The selection is made using the faceplate keys.

The programming of the instrument is made easy by grouping the parameters in function blocks and by a simplified data entry menu.

The configuration can be simplified even further using the PC programming kit made up of a connection cable and a menu guide program that runs under Windows (see data sheet cod. 80021). A configurable personal software protection code (password protection)

can be used to restrict the levels of editing and displaying the configuration parameters.

TECHNICAL DATA

INPUTS

Accuracy 0,2% f.s. ±1digit.

Sampling time 120msec with sensor supply check, configurable down to a minimum of 15msec with reduction of the resolution to 2000 steps.

Configurable decimal point position for linear inputs from potentiometer or strain-gauge for scales -199.9 to 999.9 (4 digit display) and -99.9 to 99.9 (3 digit display with sign), with over- and under-range indication.

32-segment configurable linearisation can be used.

Strain-gauge

 $350\Omega,$ maximum sensitivity 3.3mV/V with positive or symmetrical polarisation and calibration that automatically calculates the sensitivity.

Potentiometer

supply 1,2Vdc >100 Ω

POWER SUPPLY

Standard: 100 to 240Vac/dc \pm 10% optional: 11 to 27Vac/dc \pm 10% 0 to 62Hz, max. 3VA protected by an internal replaceable fuse

POWER SUPPLY SENSOR/TRANSMITTER

1,2Vdc for potentiometer > 100Ω 5Vdc, 10Vdc max. 120mA for strain-gauge 15Vdc, max 50mA 24Vdc $\pm 10\%$ unstabilised, max. 50mA

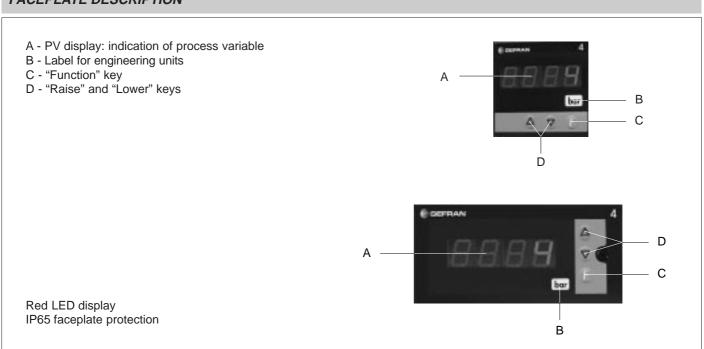
AMBIENT CONDITIONS

Working temperature range: 0 to 50°C Storage temperature range: -20 to 70°C Humidity: 20 to 85%Ur non-condensing

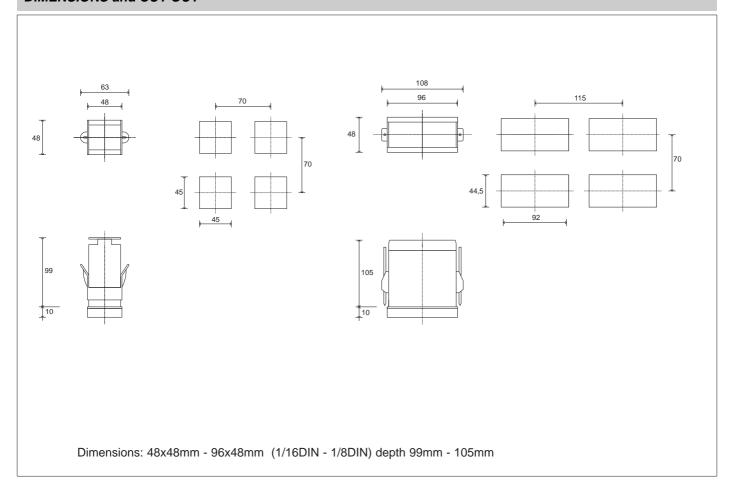
WEIGHT

150g. (48 format), 280g. (96 format) in the complete version

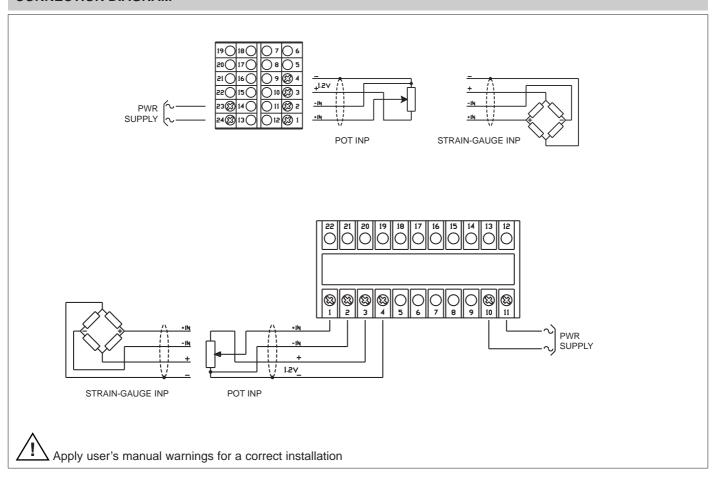
FACEPLATE DESCRIPTION



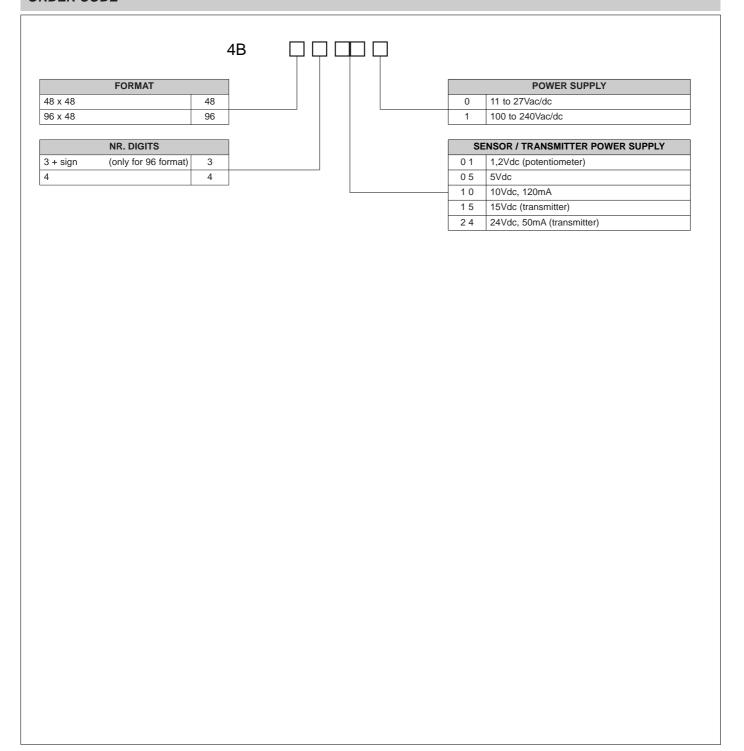
DIMENSIONS and CUT-OUT



CONNECTION DIAGRAM



ORDER CODE



GEFRAN spa reserves the right to make any modification of the design or function, at any moment without prior notice



The instrument conforms to the European Directives 89/336/CEE and 73/23/CEE with reference to the generic standards: **- EN 50082-2** (immunity in industrial environments) **- EN 50081-1** (emission in residential environments) **- EN 61010-1** (safety)





