

### Main applications

- Extrusion lines
- Rubber presses
- Test benches
- Food processing equipment
- Weight indicators
- Pressure indicators
- Position indicators



### 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

### GENERAL

Microprocessor based indicator in both 48x48 (1/16 DIN) formats manufactured with SMT.

The instruments have a lexan membrane faceplate (guaranteed to IP65) which has 3 keys, a 4 digit display and 3 indicating LED's for the output statuses.

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

- Potentiometer (minimum 100 $\Omega$ )
- 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 code WINSTRUM).

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.  $\pm 1$  digit.

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 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 $\Omega$

#### POWER SUPPLY

Standard: 100 to 240Vac  $\pm 10\%$   
optional: 11 to 27Vac/dc  $\pm 10\%$   
50/60Hz, max. 5,5VA

Protected by an internal fuse (not replaceable by the operator).

### **POWER SUPPLY**

#### **TRANSMITTER**

1,2Vdc for potentiometer > 100Ω

5Vdc, 10Vdc max. 120mA

for strain-gauge

15Vdc, max 50mA

24Vdc ±10% unstabilised, max. 50mA

### **AMBIENT CONDITIONS**

**Working temperature range:** 0 to 50°C

**Storage temperature range:** -20 to 70°C

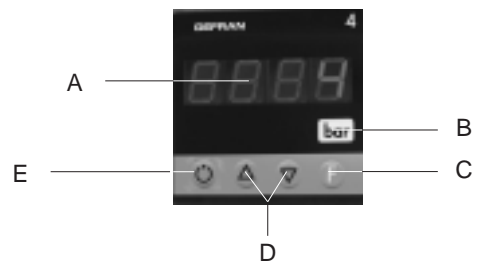
**Humidity:** 20 to 85%Ur non-condensing

### **WEIGHT**

150g. in the complete version

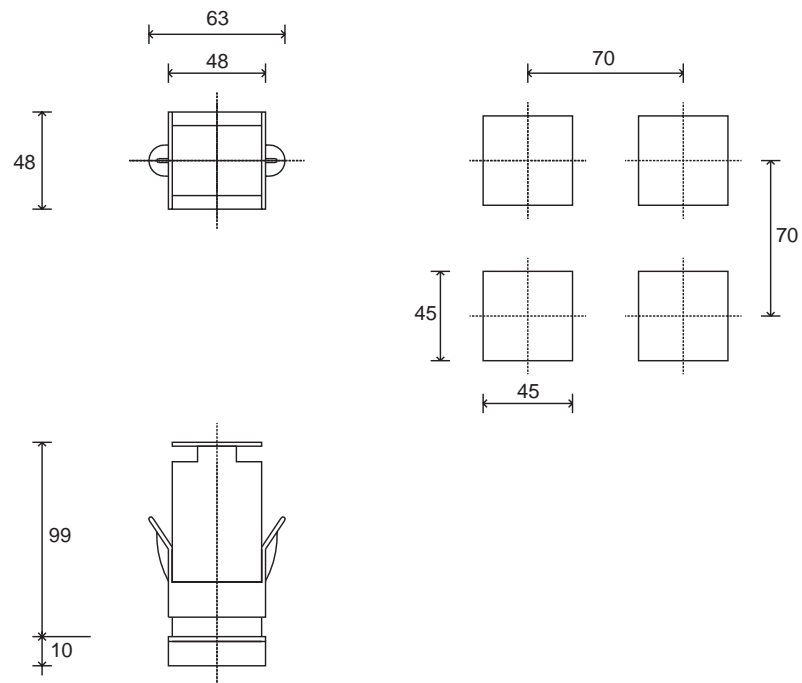
## **FACEPLATE DESCRIPTION**

- A - PV display: indication of process variable
- B - Label for engineering units
- C - "Function" key
- D - "Raise" and "Lower" keys
- E - key not used



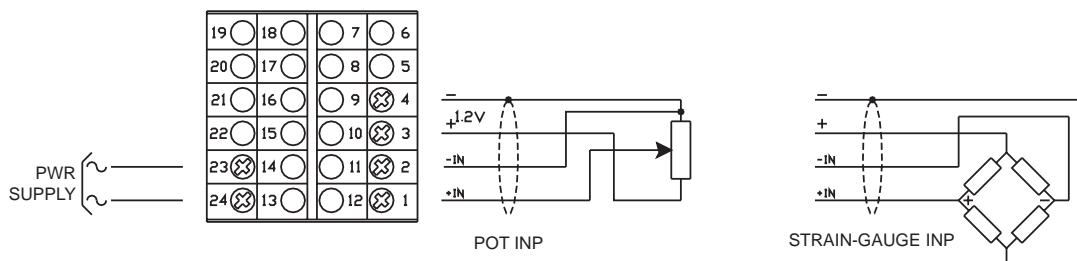
Red LED display  
IP65 faceplate protection

## DIMENSIONS and CUT-OUT



Dimensions: 48x48mm (1/16DIN )

## CONNECTION DIAGRAM



Apply user's manual warnings for a correct installation

## ORDER CODE

4B

48 4

NR. DIGITS	
4	4

POWER SUPPLY	
0	11 to 27Vac/dc
1	100 to 240Vac

TRANSMITTER POWER SUPPLY	
0 1	1,2Vdc (potentiometer)
0 5	5Vdc
1 0	10Vdc, 120mA
1 5	15Vdc (transmitter)
2 4	24Vdc, 50mA (transmitter)

Please, contact GEFRAN sales people for the codes availability.

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 2004/108/CE and 2006/95/CE with reference to the generic standards: **EN 61000-6-2** (immunity in industrial environment) **EN 61000-6-3** (emission in residential environment) **EN 61010-1** (safety)

**GEFRAN**

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