



Main applications

- Extrusion lines
- Rubber presses
- Test benches
- Lapping machines
- Food processing equipment
- Weighing
- Pressure trips
- Positioners
- Motorised potentiometers

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
- Sampling time and trip intervention programmable between 15 and 120msec with resolution between 2000 and 8000 steps
- Retransmission of the measured variable signal
- 3 trip points, completely configurable from the faceplate

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 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.

A digital input (24Vdc/4mA) is available for resetting, hold, flash, peak handling or releasing latch.

The instruments have a maximum of 3 outputs that can be mechanical relays (5A/250V) or logic outputs (0 to 11Vdc). One output of 4 to 20mA (max. 150Ω) is available for retransmitting the measured input signal.

The retransmission output, the digital input and the third output are alternative.

The programming of the instrument is

made easy by grouping the parameters in function blocks (**CFG** for the alarm hysteresis, **Inp** for the inputs, **Out** for the outputs...) 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. 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. ±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. 32-segment configurable linearisation can be used.

Strain-gauge

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

Potentiometer

Supply 1,2V >100Ω

Digital input

Ri = 5,6KΩ (24V/4mA) isolated to 1500V.

Function is configurable as alarm or memory reset, hold, flash, zero, display of the peak value (max., min. or peak to peak).

OUTPUTS

Relay

with NO (NC) contacts rated at 5A/250V at $\cos\phi = 1$.

Logic (only for Out1 and Out2)

Output type D 11Vdc, $R_{out} = 220\Omega$ (6V/20mA).

Analogue retransmission

4 to 20mA on max. 150Ω load.

POWER SUPPLY

Standard: 100...240Vac $\pm 10\%$

Optional: 20...27Vac/dc $\pm 10\%$

50/60Hz, max. 8VA

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

POWER SUPPLY

TRANSMITTER

1,2Vdc for potentiometer $> 100\Omega$

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

160g. in the complete version

FACEPLATE DESCRIPTION

A - PV display: indication of process variable

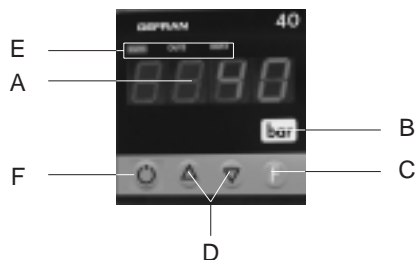
B - Label for engineering units

C - "Function" key

D - "Raise" and "Lower" keys

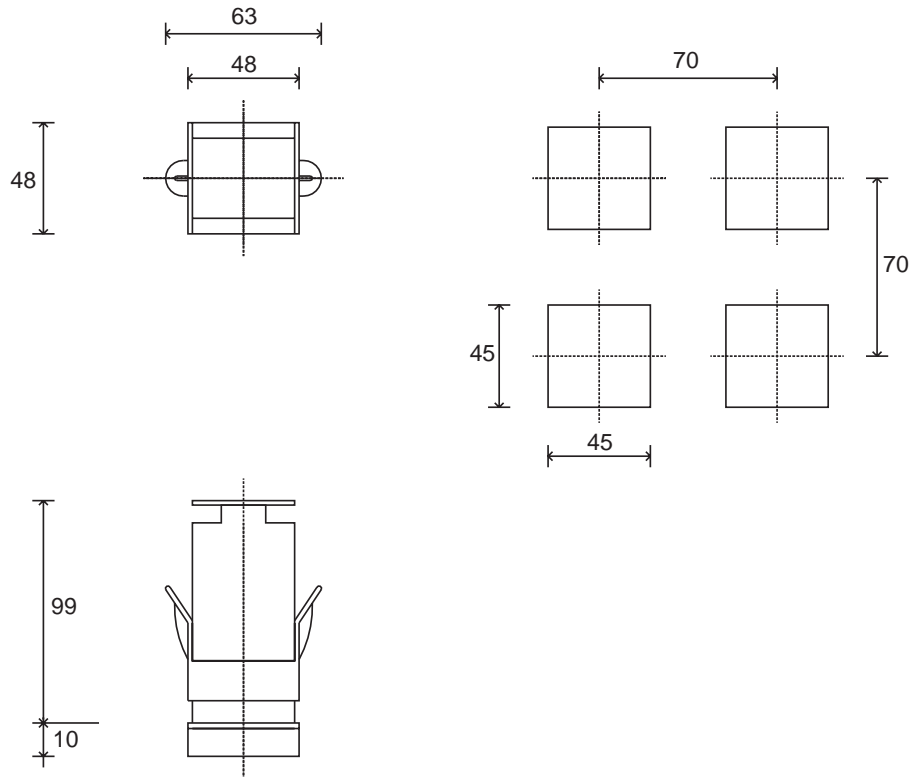
E - Indication of the states of the outputs

F - key not used



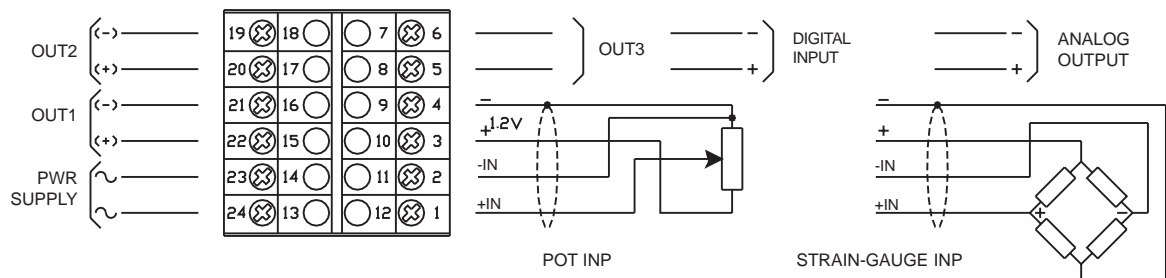
Red LED display
IP65 faceplate protection

DIMENSIONS and CUT-OUT



Dimensions: 48x48mm (1/16DIN)

CONNECTION DIAGRAM



For a correct installation see the warnings in the users' manual

ORDER CODE

40B 48 4

NR. DIGITS	
4	4

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

OUTPUT 1, OUTPUT 2	
Relay, Relay	R R
Relay, Logic	R D

POWER SUPPLY	
0	20 to 27Vac/dc
1	100 to 240Vac

DIGITAL INPUT / RETRANSMISSION OUTPUT (alternative to output 3)	
0	None
1	Digital input
2	Analog retransm. output 4 to 20mA on max 150Ω

OUTPUT 3 (alternative to digital input / retransmission output)	
0	None
R	Relay

Please, contact GEFTRAN 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)