

# PI CA40-LP

## INSTRUCTIONS MANUAL



### DESCRIPTION

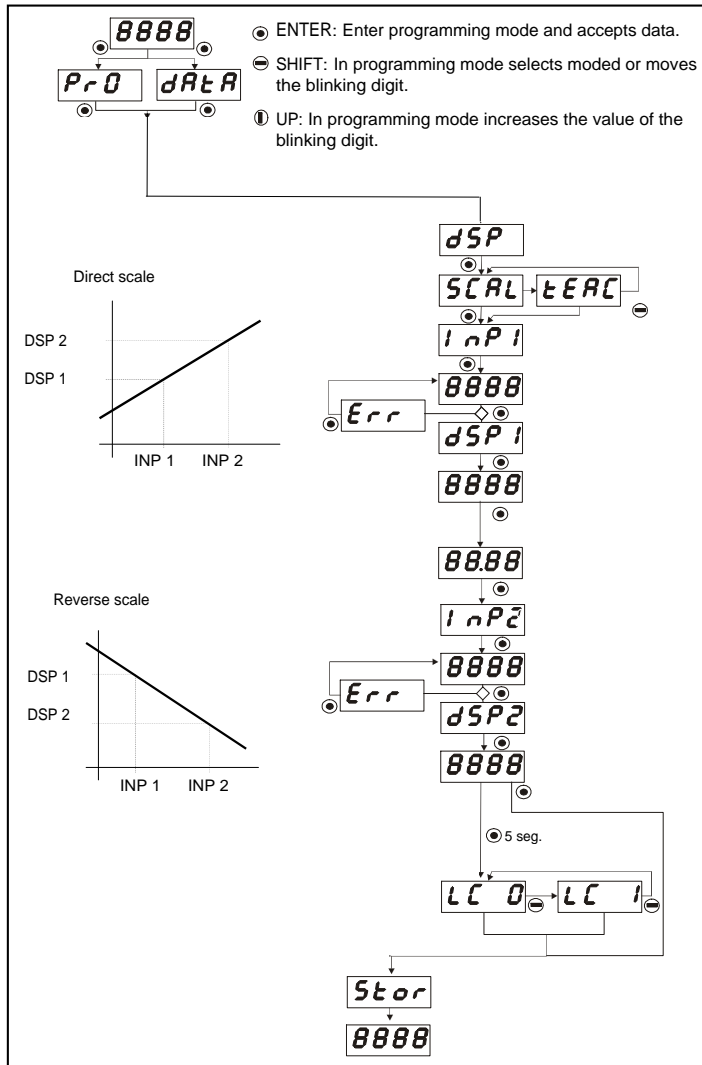
-SELF POWERED INDICADOR  
for:  
-PROCESS (4-20 mA DC)

### 48 x 24 mm front panel

Panel instrument powered by the process loop signal 4-20 mA DC.  
Display of 4 high efficiency and low consumption digits.  
Display range fully programmable as well as decimal point position.

### PROGRAMMING

Display range: ..... -1999 ÷ 9999



### TECHNICAL SPECIFICATIONS

#### INPUT CURRENT

Range +4mA to +20mA  
Resolution ± 0.01mA

#### VOLTAGE DROP-OUT ON INPUT LOOP

4mA - 20mA ..... < 5 V

#### INPUT IMPEDANCE

mA ..... 10 Ω

#### ACCURACY @ 23°C ±5°C

Error Max. .... ±(0.1% of reading + 3 digits)  
Temperature coefficient ..... 100 ppm/°C  
Warm up ..... 5 minutes

#### SUPPLY

Self powered by the 4-20mA loop signal

#### CONVERSION

Technical ..... single slope  
Resolution ..... 16 bits  
Rate ..... 62/s

#### DISPLAY

Programmable range ..... -1999 ÷ 9999  
Type ..... 4 Digit, 0.4" (10 mm) red  
Presentation rate ..... 2/s  
Over scale indication ..... **Over**

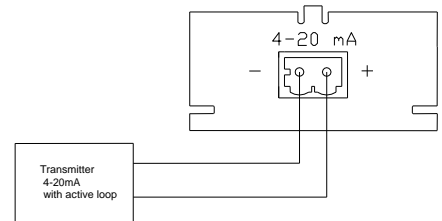
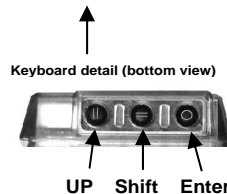
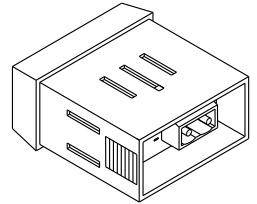
#### ENVIRONMENTAL

Operating temperature ..... -10°C ÷ +60°C  
Storage temperature ..... -25°C ÷ +85°C  
Relative humidity (non condensed) ..... <95% ÷ 40°C  
Max. Altitude ..... 2000 m.  
Panel sealing ..... IP65

### INSTALLATION AND CONECTION

#### DIMENSIONS

Dimensions ..... 1/32 DIN 48 x 24 x 40 mm.  
Panel cut-out ..... 45 x 22 mm.  
Weight ..... 50 g.  
Case material ..... Polycarbonate s/ UL 94 V-0



#### WARNING

In order to guarantee electromagnetic compatibility, the following guidelines for cable wiring must be followed:  
Use shielded cable for signal wiring and connect the shield to ground.  
The cable section must be ≥ 0.25 mm²

**CLEANING:** The frontal cover should be cleaned only with a soft cloth soaked in neutral soap product.

**DO NOT USE SOLVENTS**

**SCAL:** Programming method introducing **InP1** and **InP2** values by keyboard.  
**tEAC:** Programming method where instrument learns actual values of **InP1** and **InP2**.  
**InP1**, **InP2**: Input signal values corresponding to desired display **dSP1** and **dSP2**.  
**dSP1**: Display value corresponding to **InP1**.  
**dSP2**: Display value corresponding to **InP2**.  
**LC 0:** Programming unlocked.  
**LC 1:** Programming totally locked. (Show all parameters like **dAtA**).  
**Err:** Error on programmed parameter.  
**Stor:** Stores the whole configuration parameters.

#### WARRANTY

All products are warranted against defective material and workmanship for a period of three years from date of delivery.

If a product appears to have a defect or fails during the normal use within the warranty period, please contact the distributor from whom you purchased the product.

This warranty does not apply to defects resulting from action of the buyer such as mishandling or improper interfacing.

The liability under this warranty shall extend only to the repair of the instrument; no responsibility is assumed by the manufacturer for any damage which may result from its use.



02-12-2005

Manufacturer: DITEL - Diseños y Tecnología S.A.  
Address: Travessera de les Corts, 180 08028 Barcelona ESPAÑA  
Declares, that the product:  
Description: Digital panel meter  
Model: **PICA40-LP**



Conforms with the directives:

EMC 89/336/CEE

LVD 73/23/CEE

**EN 61000-6-2**

EN 61000-4-2

Generic immunity

Electrostatic discharge

Air discharge 8kV

Contact discharge 4kV

EN 61000-4-3

Electromagnetic fields RF

10V/m

EN 61000-4-4

Fast transients

Power supply Lines 2 kV

Signal Lines 1 kV

EN 61000-4-6

RF conducted interferences

10 V rms

**EN 61000-6-3**

Generic emission

EN 55022/ CISPR22

**EN 61010-1**

General safety

Insulation type

Enclosure: Double

Date: 10-03-2005

Signed: José M.Edo

Charge: Director Técnico