

# PI CA40-VDC

## INSTRUCTIONS MANUAL



### DESCRIPTION

INDICATOR FOR DC  
MEASUREMENT IN THE  
RANGE OF: 8 to 32 VDC

### 48 x 24 mm front panel

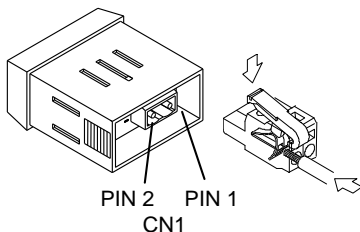
#### Length 40 mm

- No auxiliary supply needed, self-powered from the voltage to measure
- designed for a **specific** nautical field application: measurement of batteries voltage
- No Programming required.

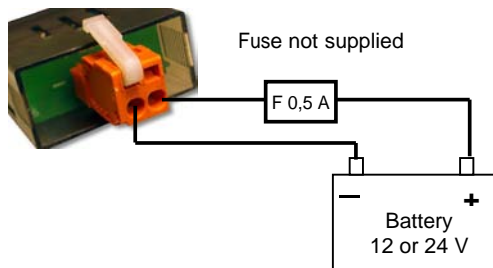
### DIMENSIONS AND MOUNTING

#### DIMENSIONS

Dimensions ..... 48 x 24 x 40 mm.  
Panel Cutout ..... 22 x 45 mm.  
Weight ..... 50 g.  
Case material ..... Polycarbonate s/ UL 94 V-0



CN1	INPUT SIGNAL/ POWER SUPPLY
PIN 1	( + 8 to 32 V dc)
PIN 2	( - )



#### WARNING

Connection of the positive (+) terminal should always be effectuated through a protective fuse (not supplied)

The cable section must be  $\geq 0.25 \text{ mm}^2$

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

#### DO NOT USE SOLVENTS

#### 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.

## TECHNICAL CHARACTERISTICS

### VOLTAGE INPUT

Range ..... 8 to 32 V DC  
Resolution ..... 0.1 V

### ACCURACY at 23°C $\pm 5^\circ \text{C}$

Max error .....  $\pm(0.1 \% \text{ of reading} + 3 \text{ digits})$   
Temperature coefficient ..... 100 ppm/°C  
Warm up ..... 5 minutes

### POWER SUPPLY

self-powered from the voltage to measure  
Consumption .....  $\leq 20 \text{ mA}$   
Fuse recommended ( not supplied) ..... F 0,5 A

### CONVERSION

Technical ..... Single Slope  
Resolution ..... 14 bits  
Reading rate ..... 166/ s

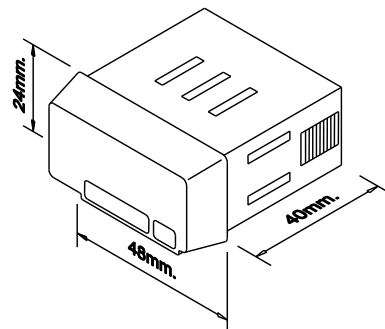
### DISPLAY

Fixed range ..... 8.0 to 32.0  
Type ..... 3 red digits 10 mm  
Reading rate presentation ..... 2/ s  
Overflow indication ..... **OL**

### ENVIRONMENTAL

Operating temperature .....  $-10^\circ \text{C} \div +60^\circ \text{C}$   
Storage temperature .....  $-25^\circ \text{C} \div +85^\circ \text{C}$   
Relative humidity (non condensed) .....  $<95 \% \div 40^\circ \text{C}$   
Maximum altitude ..... 2000 m.  
Panel sealing ..... IP65

### DIMENSIONS



Manufacturer: DITEL - Diseños y Tecnología S.A.  
Address: P.I. Les Guixeres C/ Xarol, 8C 08915 BADALONA SPAIN  
Declares, that the product:  
Description: Digital panel meter  
Model: **PICA40-VDC**

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 61000-4-5

Surge  
Power supply Lines  $\pm 0.5 \text{ kV}$   
Signal lines  $\pm 1 \text{ kV}$

EN 61000-4-6

RF conducted interferences  
10 V rms

**EN 61000-6-3**

Generic emission  
EN 55022/ CISPR22

**EN 61010-1**

General safety  
Installation category II  
Enclosure: Double

Date: 10-07-2006  
Signed: José M. Edo  
Function: Technical Manager



**Messtechnik  
Schaffhausen GmbH**  
CH-8260 Stein am Rhein  
Telefon +41 52-672 50 00

Messen Prüfen Automatisieren [www.mts.ch](http://www.mts.ch)