

PI CA40-ADC

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INDICATOR FOR DC MEASUREMENTS USING EXTERNAL SHUNT

48 x 24 mm front panel
Length 40 mm

- designed for a **specific** nautical field application: measurement of batteries charge-discharge current
- Current measurement using a shunt **connected to the battery negative terminal.**
- Type of SHUNT selected is programmable (50/ 60/ 100 mV)
- Programmable scale in the range ± 199.9 or ± 1999 A
- Display starts to blink when exceeding the 25 % of the scale in the case of discharge indication.
- 3 keys Keyboard located below the display.

PICA40-ADC



TECHNICAL CHARACTERISTICS

VOLTAGE INPUT

Range ± 100 mV
Internal resolution 10 μ V

INPUT IMPEDANCE

mV 100 k Ω

ACCURACY at 23°C $\pm 5^\circ$ C

Max error $\pm (0.2 \% \text{ of reading} + 3 \text{ digits})$
Temperature coefficient 100 ppm/ $^\circ$ C
Warm up 5 minutes

POWER SUPPLY

Range 8 to 30 V dc
Fuse recommended (not supplied) F 0,5 A

CONSUMPTION

8 to 30 V dc ≤ 25 mA

CONVERSION

Technical Single Slope
Resolution 14 bits
Reading rate 166/ s

DISPLAY

Range $\pm 199.9 / \pm 1999$
Resolution scale ± 199.9 A 0.1 A
Resolution scale ± 1999 A 1 A
Type 4 red digits 10 mm
Decimal point for scale values $< \pm 200$ A
Reading rate presentation 2/s
Blinking display for current discharge $> 25 \% \text{ Scale}$
Blinking rate display ON/ OFF 800 ms/ 200 ms
Overflow indication $\pm \text{OUE}$

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

PROGRAMMING

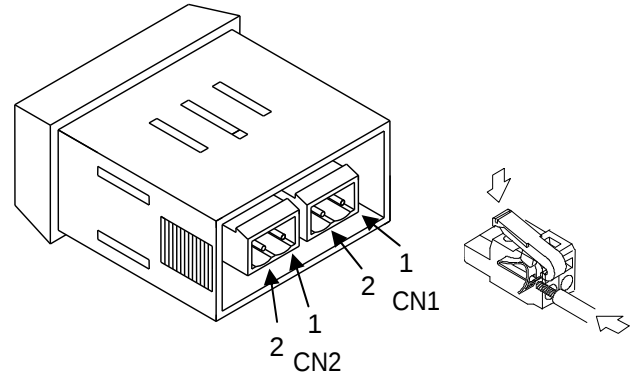
Display ranges:

..... -1999 to 1999
..... -199.9 to 199.9



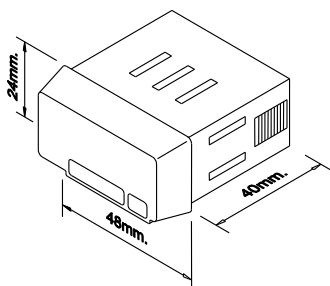
KEYBOARD DETAIL (BOTTOM VIEW)

CONNECTIONS



DIMENSIONS AND MOUNTING

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

PIN 1

+ mV (Shunt)

PIN 2

- mV (Shunt)

CN2

POWER SUPPLY

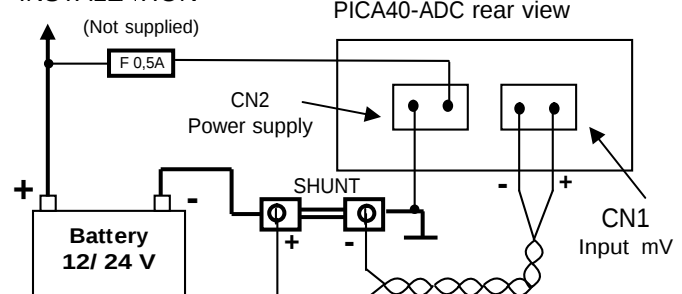
PIN 1

+ Battery (8 to 30 V dc)

PIN 2

- Battery

INSTALLATION



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