# CA40-ADC

### INSTRUCTIONS MANUAL



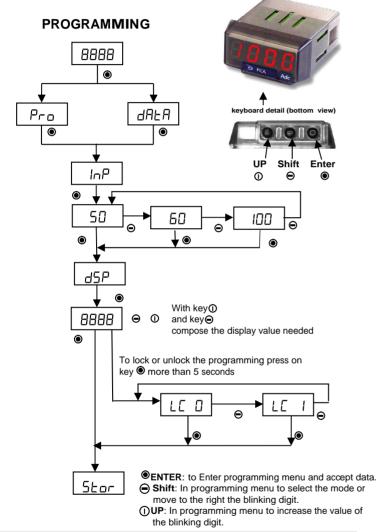
#### DESCRIPTION

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.



InP: Programming of shunt type used. 50 mV, 60 mV or 100 mV

dSP: Programming of shunt nominal value. Example: with a 100 A / 60 mV shunt display is programmed to display 100 and automatically when the value is accepted the displayed value will turn to be 100.0. When a display value < 200 is programmed the value will be with a decimal and when a display value > 200 is

programmed the value will be without. LC 0: indicates that Programming is unlocked, you can enter programming menu

LC 1: Programming is locked (Starts with Data, programmed values can be seen but not be changed)

# 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.



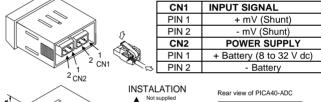
#### TECHNICAL CHARACTERISTICS

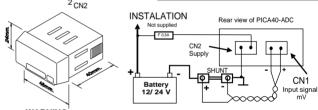
TECHNICAL CHARACTERISTICS	
VOLTAGE INPUT	
Range	±100 mV
Internal resolution	10 µV
INPUT IMPEDANCE	•
mV	100 kQ
mVACCURACY at 23°C ±5° C	
Max error± (0.2 % of rea Temperature coefficient	100 ppm/ °C
Warm up	5 minutes
Warm up POWER SUPPLY	
Range	8 to 32 V dc
Fuse recommended (not supplied)	F 0,5 A
CONSUMPTION	
8 to 30 V dc	≤ 25 mA
CONVERSION	
Technical	Single Slope
Resolution	14 bits
Reading rate	166/ s
DISPLAY	
Range	±199.9 / ±1999
Resolution scale ±199,9 A	0.1 A
Resolution scale ±1999 A	1 A
Type	ed digits 10 mm
Decimal point for scale values	< ± 200 A
Reading rate presentation	2/s
Blinking display for current discharge	> 25 % Scale
Blinking rate display ON/ OFF	800 ms/ 200 ms
Overflow indication	±ひぃと
ENVIRONMENTAL	
Operating temperature	10 °C ÷ +60 °C
Storage temperature	25 °C ÷ +85 °C
Relative humidity (non condensed).	<95 % ÷ 40 ℃
Maximum altitude	2000 m.
Panel sealing	IP65

#### INSTALLATION AND CONNECTION

#### DIMENSIONS

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

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

PICA40-ADC Conforms with the directives EMC 89/336/CEE LVD 73/23/CFF

Generic immunity EN 61000-6-2 EN 61000-4-2 Electrostatic discharge Air discharge 8kV Contact discharge 4kV

EN 61000-4-3 Electromagnetic fields RF

FN 61000-4-4 Fast transients Power supply Lines 2 kV

Signal Lines 1 kV EN 61000-4-5 Surge Power supply Lines ± 0.5 kV

Signal lines ± 1 kV EN 61000-4-6 RF conducted interferences 10 V rms

EN 61000-6-3 Generic emission EN 55022/ CISPR22

FN 61010-1 General safety Installation category II Enclosure: Double

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



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