

## electrical measurements 10 000 points ICO 51



The function of measurement and range, as well as put on a specific scale are programmable. The parameters thus configured are protected against all inopportune modifications

- Format 72 x 24 mm
- Function, ranges and scale programmable
- Configurable on site

### functions

#### Measure

The ICO 51 allow upto measurements of A.C/D.C 400 V (true effective value with or without component continuous health) and measurements of A.C/D.C current (up to 5 A) using small shunt screwed on the back connector block.

#### Automatic ranging.....

This function allows to change automatically the range in same measuring unit.

#### Hold the measurement.....

It is carried out by a simple short-circuit on the back connector block.

#### Scaling.....

Whatever the function, the user can program a scaling.

The value to be posted is entry using the two keys of the keyboard while the value of horn measurement corresponding can be is introduced even way, is measured by the instrument.

Function	Range (1)	Resolution	Accuracy (2)	Input resistance
DC voltage	500 mV	100 $\mu$ V	0,1 % + 100 $\mu$ V	> 1 000 M
	5 V	1 mV	0,1 % + 1 mV	1 M
	50 V	10 mV	0,1 % + 10 mV	1 M
	400 V	100 mV	0,1 % + 100 mV	1 M
AC voltage (true effective)	500 mV	100 $\mu$ V	0,7 % + 1 mV	1 M
	5 V	1 mV	0,5 % + 6 mV	1 M
	50 V	10 mV	0,5 % + 60 mV	1 M
	400 V	100 mV	0,5 % + 0,6 V	1 M
D.C current	4-20 mA ou 0-50 mA	10 $\mu$ A	0,2 % + 10 $\mu$ A	shunt 10 incorporé
	1 A (3)	1 mA		shunt 100 mV : AN 8003
	5 A (3)	1 mA		shunt 100 mV : AN 8004
AC current (true effective) (3)	1 A	1 mA	shunt 100 mV : AN 8003	
	5 A	1 mA		shunt 100 mV : AN 8004

(1) Extended from measurement : of - 40 to + 110 % gauge.

(2)  $\pm$  (% reading + a number of units) on 1 year.

Continuous: of - 40 to 100 % gauge.

Into alternate : of 4 to 100 % gauge from 25 to 500 Hz without D.C component (possible measurements up to 10 Khz on some ranges with less precision).

(3) Current measurement with external shunt.

### general characteristics

#### Display.....

From - 1999 to 9999 with indication, LED red, yellow or green, 14 mm.

Speed of measurement : 2,5 measures/s.

Temperature coefficient 10 % pré ci-sion/°C.

Acceptable maximum voltage on the ranges  
voltage : 600 V. —

#### Common mode.....

Acceptable maximum volatge: 250 V~.

Rejection 110 dB to 50 Hz on the gauge  
500 mV continuous..

#### Climatic environnement.....

Nominal field : 0 à 50°C, of 20 to 80% HR without condensation.

# DIGITAL PANEL METERS

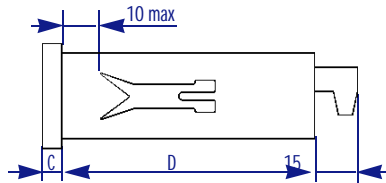
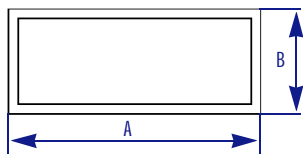
Isolated power supply.....  
 230 V~ (± 10 %) 50 à 60 Hz.  
 Others power supply:  
 5 V- ± 10 %, 9 à 18 V-  
 18 à 36 V-, 36 à 72 V-  
 24 V~ ± 10 %, 48 V~ ± 10 %, 115 V~ ± 10 %.

Presentation.....  
 Case ABS.  
 Model 72 X 24: sealing IP 40.  
 Weight: approximately 300 G.

Connection.....  
 Removable screwing connectors supplied with instrument.

## dimensions

Dimensions in mm



Case	A	B	C	D	Cut out panel
72 x 24	72	24	5	103	68.0 <sup>+0.8</sup> x 22.2 <sup>+0.3</sup> <sub>0</sub>

## options and accessories

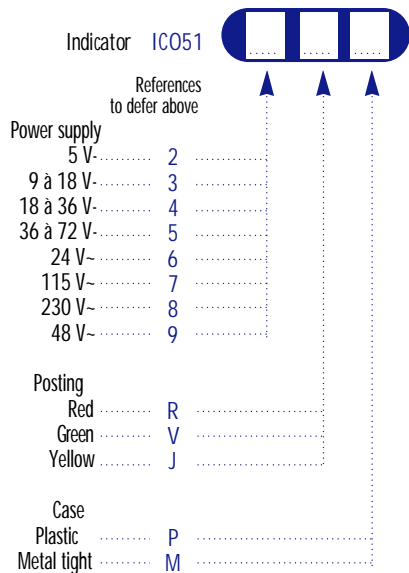
External shunts.....  
 Modules screwed on the connector.  
 AN 8003 : 1 A, 100 mV, accuracy 0,2 %  
 AN 8004 : 5 A, 100 mV, accuracy 0,5 %.  
 Dimensions : 25 x 27,5 x 14,8 mm.

Transformers of current.....  
 Classify 0,5.  
 AN 5844 : 2/1 A,  
 AN 5845 : 20/1 A,  
 AN 5846 : 200/1 A.

Mechanical flange of adaptation.....  
 It makes it possible to adapt the instrument to a drilling of panel of higher size of a few millimetres.  
 External dimensions : 80 x 32 mm.

Metal case seals.....  
 Seal opposite before (IP 65), format 99 x 36 x prof. 120 mm.

## instructions to order



Options and accessories .....  
 Shunt 1 A AN 8003  
 Shunt 5 A AN 8004  
 Transformer of current 2/1 A AN 5844  
 Transformer of current 20/1 A AN 5845  
 Transformer of current 200/1A AN 5846  
 Flange of adaptation AMD001  
 Indicator 12 ways See note BCM 012

Distributed by :

**AOIP**  
**BP 182**  
**91006 EVRY CEDEX**  
**www.aoip.com**

G 04

The characteristics above can be modified without prior notice