DITEL: PRODUCTS: DIGITAL STARS: **81100Y0X**

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DESCRIPTION

Model 811 panel voltmeters are specific instruments for readout DC voltages up to 1000V.

They are simple, low-cost indicators, without output or setpoint option, easy to install and put into operation.

Taking out the frontal lens provides access to decimal point location and to span adjustment with a margin of 20%. The zero adjustment is automatic except for the 199.9mV range, for which the meter incorporates an amplifier option.

Fully configured at the factory upon request, it is possible to modifie later the scale by changing the value of an internal shunt as indicated in the following page.

Power and signal connection is realized by means of a 6-pin MAT-N-LOK AMP connector located at the rear of the unit.

SELECTION GUIDE

81100	Y	0	X
SUPPLY POWER			
115V 50/60Hz	1		
230V 50/60Hz	2		
12V DC ISOLATED	4		
24V 50/60Hz	7		
24V DC ISOLATED	8		
SCALES			
1.999V			1
19.99V			2
199.9V			3
1000V			4
1999mV			6
199.9mV			7
SILKSCREENED UNIT			

ORDERING EXAMPLE

8110 0203 E25 DC: voltmeter Series 800
Supply power: 230V AC (50/60Hz)
Scale: 199.9V DC - Unit: V DC
Format: 96x48mm. - 3½ digits

SPECIFICATIONS

INPUT SIGNAL

- Configuration: Differential asymmetrical
- Maximum allowable voltage: Vmax.(IN)
- Input impedance: Z (IN)

SCALE	Vmax.(IN)	Z (IN)
199.9mV	5V	100Mohm
1.999V	5V	100Mohm
19.99V	50V	1Mohm
199.9V	500V	1Mohm
1000V	1000V	4Mohm

- Common mode max. voltage (signal/power)

AC Voltage: 1000V DC or 1500V ACpp
DC Voltage: ±400V DC

POWER

- Supply voltages

AC (50/60Hz): 24, 115, 230V AC
DC (isolated): 12, 24V DC

- Maximum isolation: 1000V DC or 1500V ACpp
- Consumption: 3W nominal

ACCURACY

- Resolution: 0.05% F.S.
- Maximum error: 0.10% F.S. ±1 digit

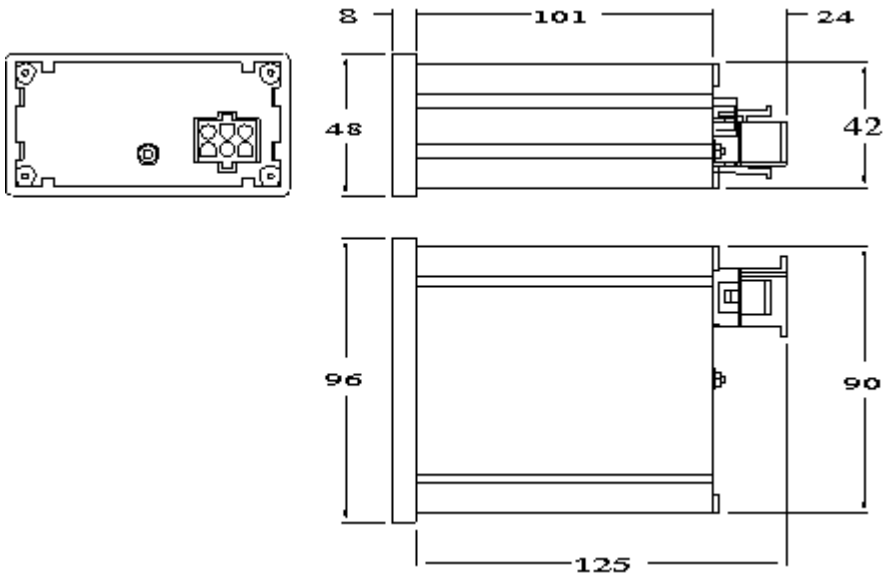
DISPLAY

- Type: red LED (0.56") 14mm. high
- Overrange: 1999. (3 L.S.D. blanked)
- Polarity: automatic (±) sign
- Reading rate: 4 per second

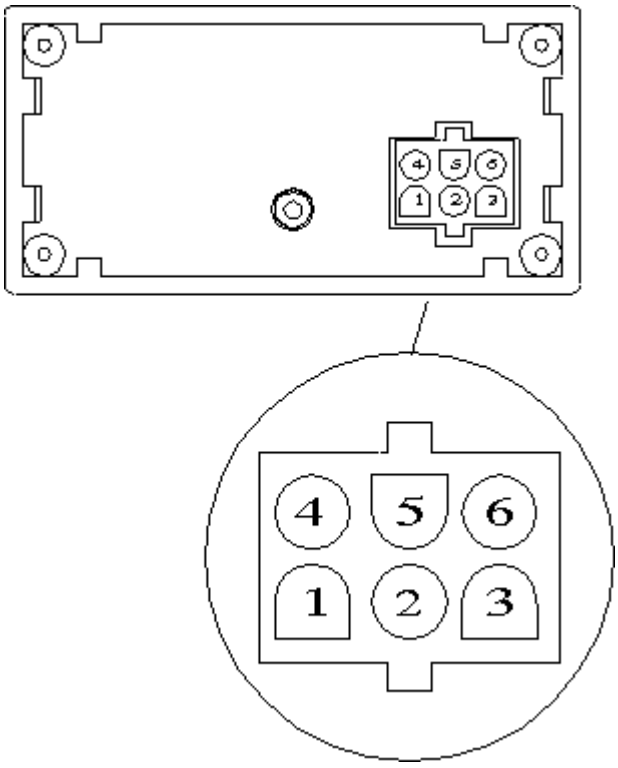
GENERALES

- Operating temperature: 0°C to 50°C
- Storage temperature: -25°C to +85°C
- Relative humidity: max. 95% (non condensing)
- Weight: 300g
- Dimensions: 96x48x110mm. (s/DIN 43700)
- Case material: 94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)



SIGNAL AND POWER CONNECTION

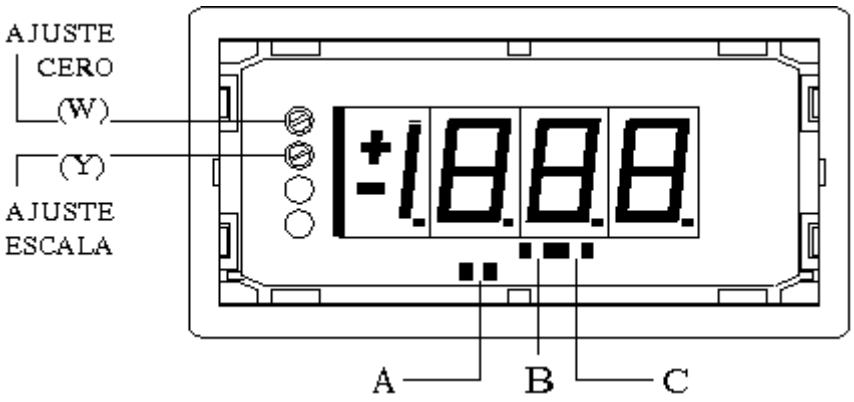


Input signal
PIN 1 Spare
PIN 2 Input signal (+)
PIN 3 Input signal (-)
PIN 5 Spare

AC supply power
PIN 4 AC HI
PIN 6 AC LO (neutral)

DC supply power
PIN 4 DC positive (+)
PIN 6 DC negative (-)

SETUP AND CALIBRATION

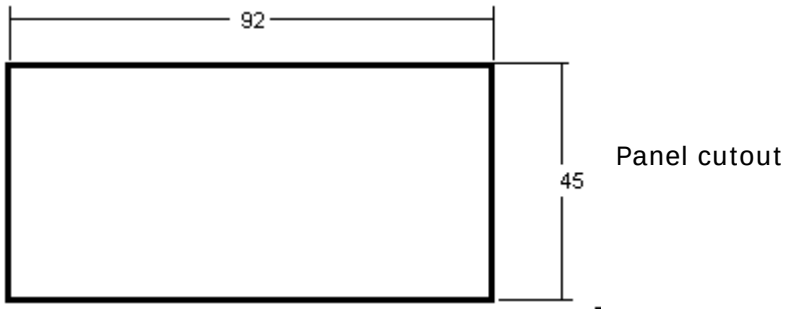


Jumper	Display
A	1.999
B	19.99
C	199.9
Ninguno	1999

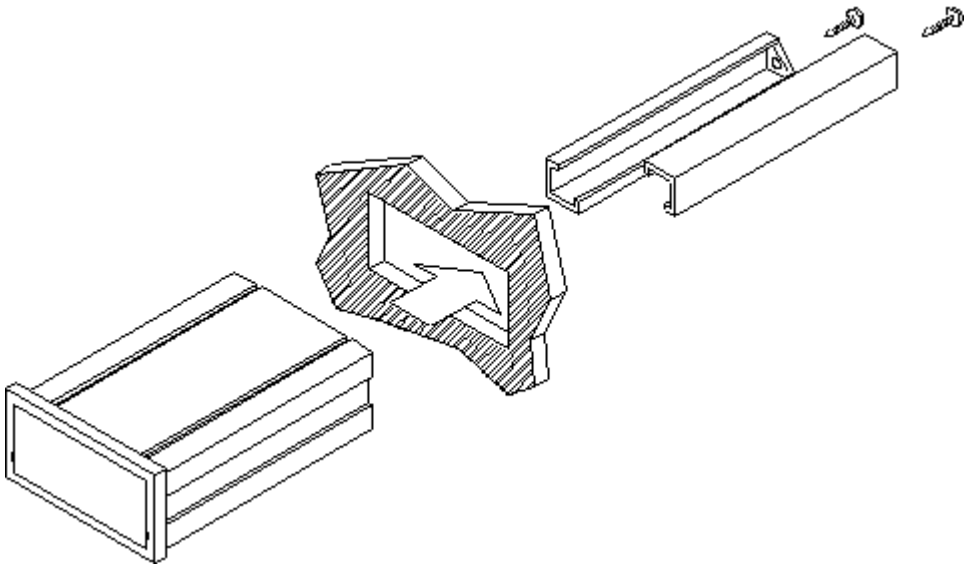
The **span adjustment** is made by the potentiometer (Z) located to the left, lower side of the display. Turning clockwise increases the display reading. The adjust margin is ±20% of F.S.

The zero adjustment is only necessary for the 199.9mV range.

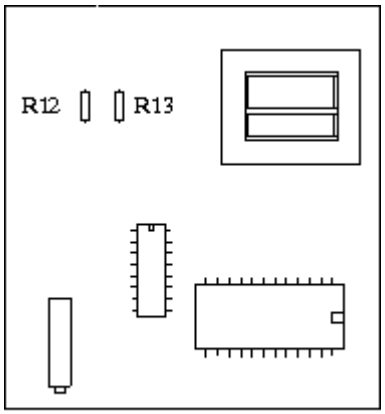
MOUNTING



Min.thickness: 0.8mm
Max.thickness: 10mm



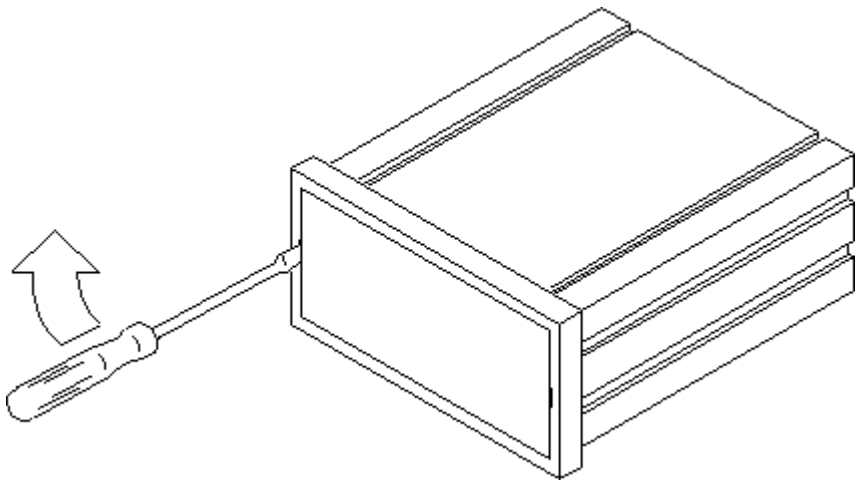
SCALING



To change the scale, modifie the values of R12 and R13 as follows:

Scale	R12	R13
1000V	4x1Mohm	4kohm
199.9V	1Mohm	10kohm
19.99V	1Mohm	110kohm
1.999V	-	-
199.9mV	-	-

ACCESS TO CALIBRATION



Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally as it is shown in the figure until the lips disengange.

For further configuration unscrew the rear nut to take the circuits out from the front of the case. To reinstall lens, insert it completely from one side and press from the other until it is fitted.

Warranty:
Press the icon to see it.

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