DITEL: PRODUCTS: DIGITAL STARS: **85300Y0X**

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DESCRIPTION

Model 853 panel thermometers are instruments used to display temperature on the centigrade or fahreinheit scale with an input for direct connection to platinum sensors by two- or three-wire.
Resolutions of one degree or one tenth of degree are available depending on model.
They are simple, low cost indicators, without outputs or setpoint option, easy to install and put into operation.
Fully calibrated at fabrication, they allow later recalibration via a zero and a span potentiometers accessible from the front through the lens of the meter.
Power and sensor connection is made by means of a 6-pin MAT-N-LOK AMP connector located at the rear of the unit.

SELECTION GUIDE

853	0	0	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		
RANGES					
-99.9 / +199.9°C					3
-100 / +800°C					4
-199.9 / +199.9°F					5
-300 / +1300°F					6
SILKSCREENED UNIT					

ORDERING EXAMPLE

8530 0203 E57 : Pt100 thermometer series 800
Supply power: 230V AC (50/60Hz)
Range -99.9/+199.9° C Unit: C

Format 96x48mm. - 3½ digits

SPECIFICATIONS

INPUT SIGNAL

- Sensor type   RTD platinum 100 ohm
- Configuration   Wheatstone bridge
- Sensor connection   2 or 3 wires
- Maximum sensor current   1mA
- Common mode max. voltage (signal/power)

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

POWER

- Supply power

AC (50/60Hz):   24, 115, 230V AC
DC (isolated):   12, 24V DC
- Maximum isolation   1000V DC or 1500V ACpp
- Consumption   4.5W nominal

ACCURACY

- Resolution   0.1° (8530 0Y03/5)
                                                    1° (8530 0Y04/6)
- Maximum error   0.2% ±0.1° (8530 0Y03/5)
                                             0.2% ±1° (8530 0Y04/6)

DISPLAY

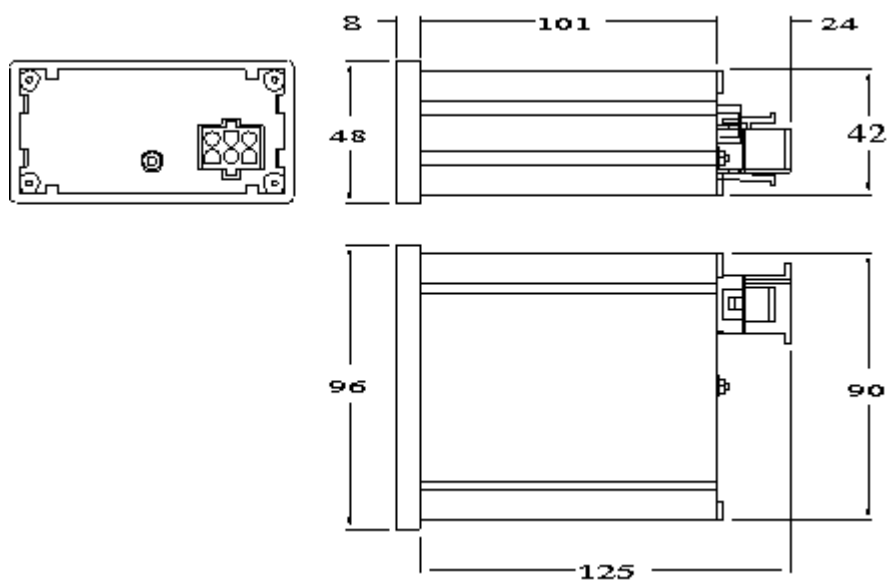- Type   red LED (0.56") 14 mm. high
- Resolution   ± 1999 counts (3½ digits)
- Sensor-break ind   0°C or 1999. (s/model)
- A/D conversion technique   dual slope
- Reading rate   4 per second

ENVIROMENTALS

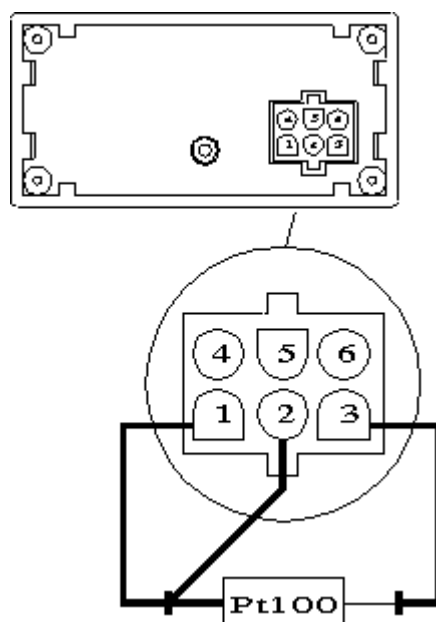- Operating temperature   0° or 50°C

- Storage temperature   -25° or +85°C
- Relative humidity   max. 95% (non condensing)
- Weight   310g
- Dimensions   96x48x110mm. (s/DIN 43700)
- Panel cutout   92x45mm. (s/DIN 43700)
- Case material   94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)

SIGNAL AND POWER CONNECTIONS

Input signal
PIN 1 Pt100
PIN 2 Pt100
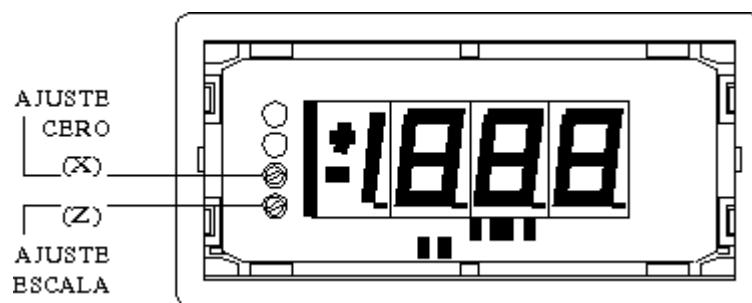PIN 3 Common Pt100

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

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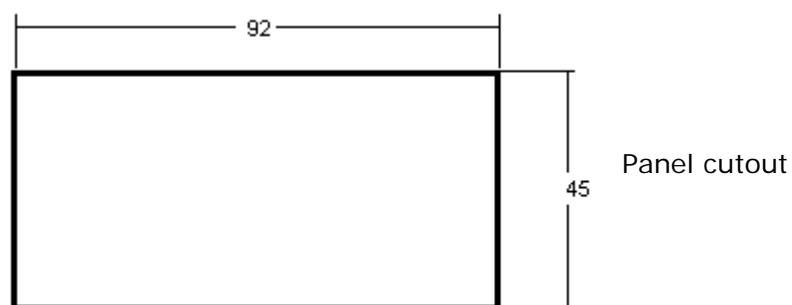PIN 6 DC negativo (-)

ZERO AND SPAN ADJUSTMENT

To make the adjustments, calibrated resitances or accuracy thermometer are needed to control 0° and the maximum value of the variable.
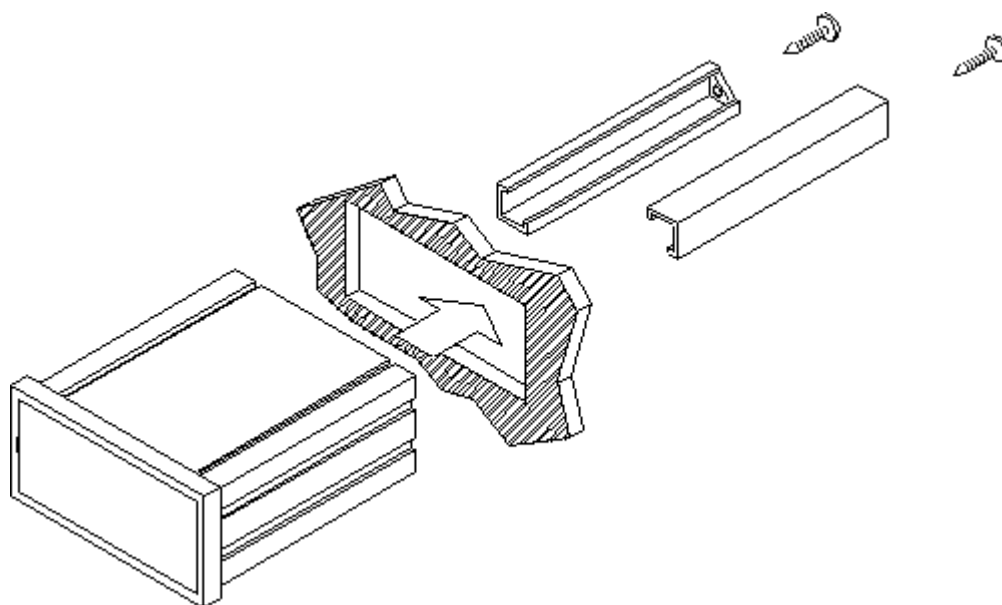
Z = Scale adjustement
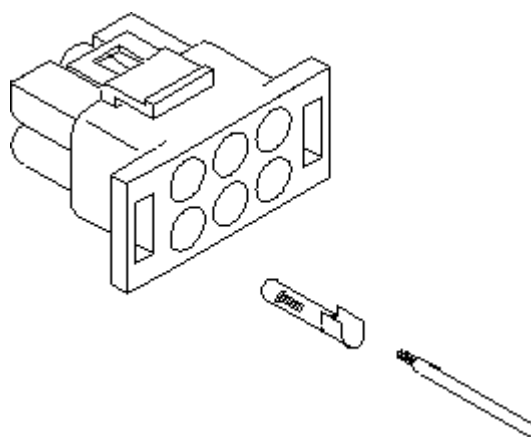X = Zero adjustement

MOUNTING

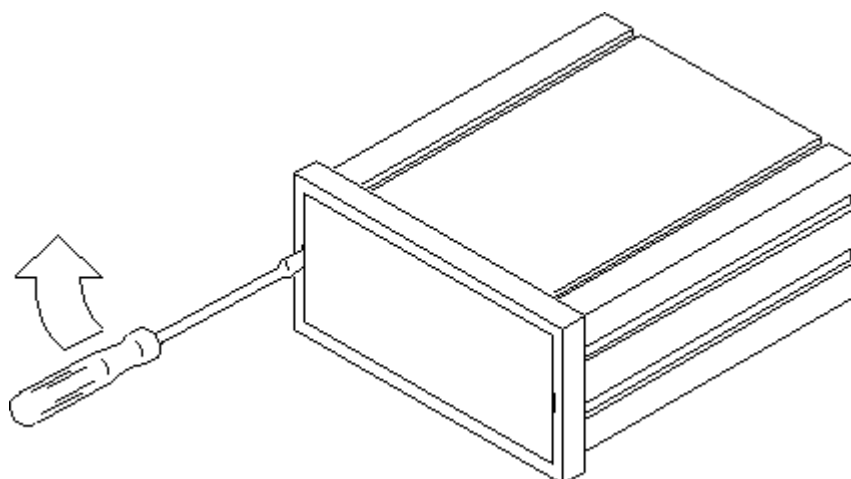Panel cutout

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

CONNECTORS

Signal and power connector :
6-pin MAT-N-LOK AMP

Contacts assembly :
Hand tool AMP reference 90277-1

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.

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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