DITEL: PRODUCTS: DIGITAL STARS: **8540XY04**

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DESCRIPTION

Model 854 panel thermocouple meters are simple, low cost indicators, without outputs or setpoint option, easy to install and put into operation. They are available for five thermocouple types and are complete with linearization, sensor-break detection and cold-junction compensation.
Fully calibrated at fabrication, they allow zero and span adjustment via two potentiometers accessible from the front behind lens.
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

854	0	X	Y	0	4
THERMOCOUPLE INPUT					
"J" Fe-CuNi (0-850°C)		1			
"K" NiCr-NiAl (0-12500°C)		2			
"T" Cu-CuNi (0-400°)		3			
"R" Pt-Pt13%Rh (0-1750°)		5			
"S" Pt-Pt10%Rh (0-1750°)		6			
SUPPLY POWER					
115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V DC ISOLATED			8		
SILKSCREENED UNIT					

ORDERING EXAMPLE

8540 1205 E58 : Thermocouple meter series 800
Supply power: 230VAC (50/60Hz)
Input: thermocouple J Unit: F
Format: 96x48mm. - 3½ digits

SPECIFICATIONS

INPUT SIGNAL

- Thermocouple types: "J", "K", "T", "R", "S"
- Configuration: differential asymmetrical
- Cold junction compensation: 0 to 50°C
- TC linearization: analog by steps
- Maximum lead resistance: 10 ohm

TERMOCOUPLE TYPE	MARGEN TEMP.
"J" (Fe-CuNi)	0-850°C
"K" (NiCr-NiAl)	0-1250°C
"T" (Cu-CuNi)	0-400°
"R" (Pt-Pt13%Rh)	0-1750°
"S" (Pt-Pt10%Rh)	0-1750°

- 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: 2.5W nominal

ACCURACY

- Resolution: 1°C
- Maximum error: 1% ±1°C

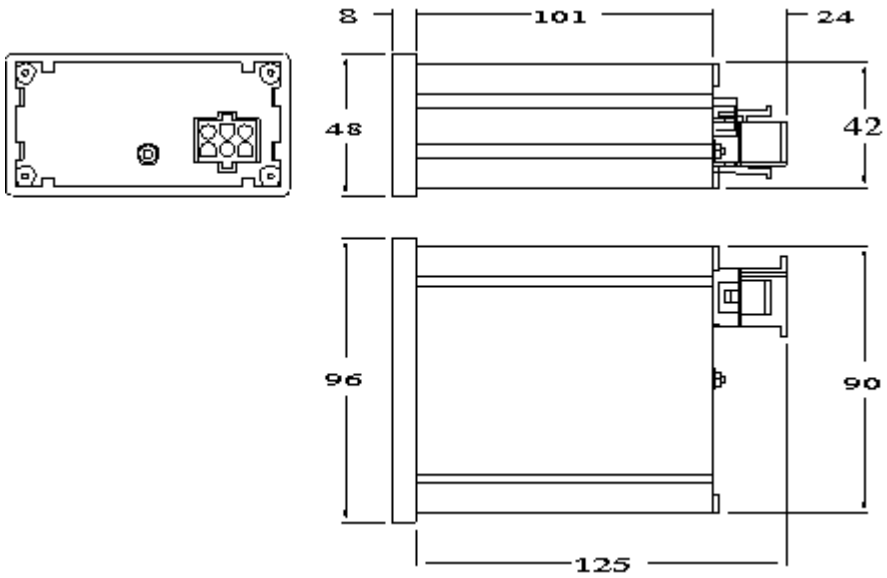
DISPLAY

- Type: red LED (0.56") 14 mm. high
- TC-break indication: negative overrange
- A/D conversion technique: dual slope
- Reading rate: 4 per second

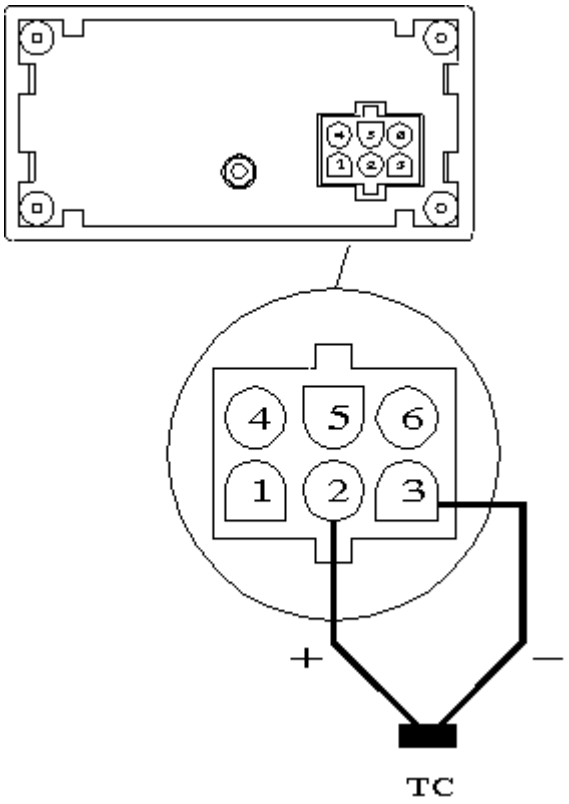
ENVIROMENTAL

- Operating temperature: 0° to 50°C
- Storage temperature: -25° to +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

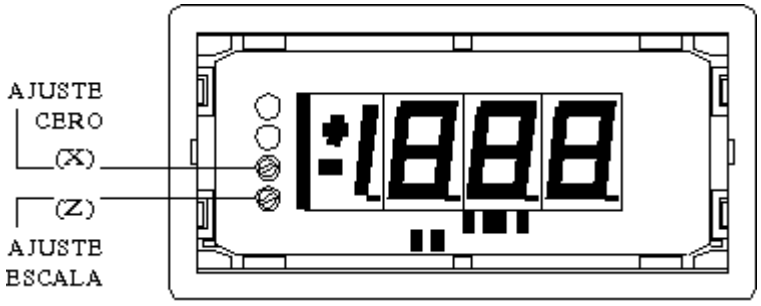


Input signal
PIN 1 Spare
PIN 2 Thermocouple (+)
PIN 3 Thermocouple (-)

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

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

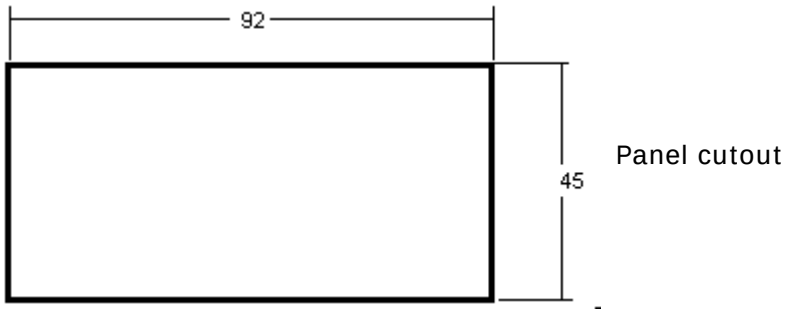
ZERO AND SPAN ADJUSTMENT



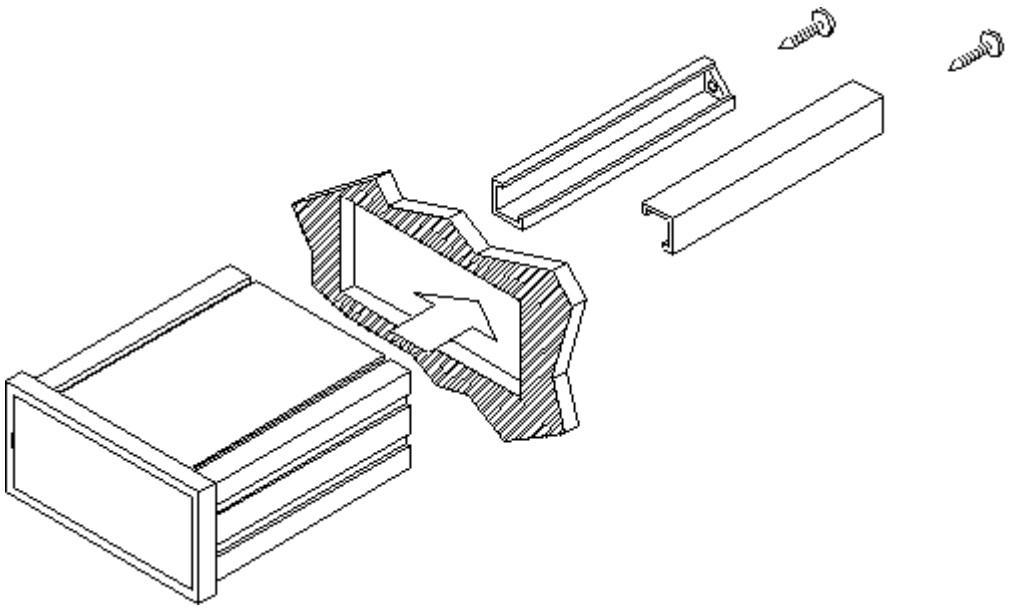
Cold-junction compensation : Shortcircuit pins 2 and 3 at the connector and adjust the zero potentiometer until the display reads the ambient temperature.

Span adjustment : The adjust must be made in the middle point of the thermocouple range by applying an accurate millivolt signal corresponding to the difference between the adjust temperature and the ambient temperature.

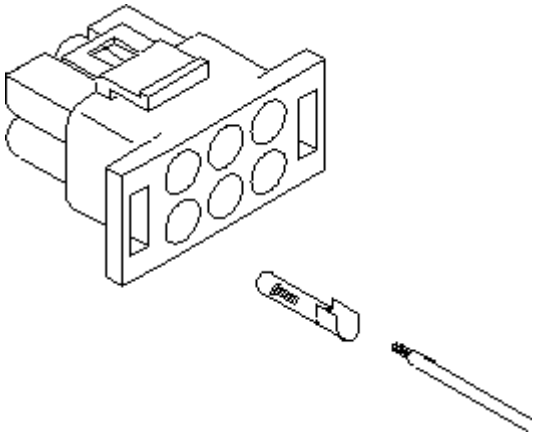
MOUNTING



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



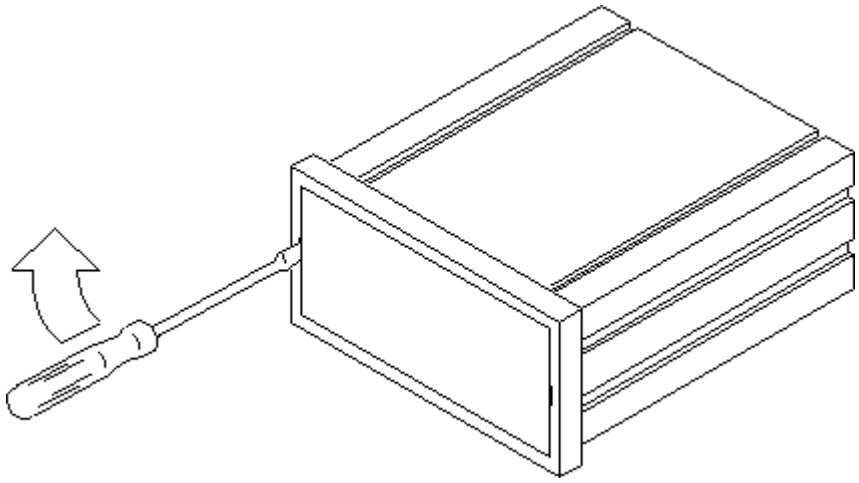
CONNECTORS



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

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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