DITEL: PRODUCTS: DIGITAL STARS: **754SXY04**

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DESCRIPTION

Model 754S panel thermocouple meters are specific instruments that readout and control temperature in degrees Celsius.

Their input option allows direct connection to several thermocouple types by means of a MAT-N-LOK AMP 6 pins connector located at the rear of the unit.

Fully configured at the factory, they allow, if required at a later time, span adjustment and cold junction compensation by two potentiometers accessible behind lens.

These instruments are available in series 700 and 7000. The latter provides one analog setpoint that can be made to operate within two modes of ON/OFF commutation and switching hysteresis.

SELECTION GUIDE

	754	S	X	Y	0	4
PRESET/RELAY						
NO SETPOINT (Series 700)	0					
1 SETPOINT (Series 7000)	4					
THERMOCOUPLE TYPE						
"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		
10-40V DC NON ISOLATED				6		
24V 50/60Hz				7		

24V DC ISOLATED	‖ ‖	8	‖ ‖
SILKSCREENED UNIT	‖		‖

ORDERING EXAMPLE

7544 1204 E57 : Thermocouple meter series 7000 Supply power: 230V AC (50/60Hz) Input: thermocouple "J" Unit: ° C 1 potent. adjustable analog setpoint

SPECIFICATIONS

INPUT SIGNAL

- Configuration   differential asymmetrical
- TC linearization   Wheatstone bridge
- Cold junction compensation   0° C to 50° C
- Maximum lead resistance   10 ohm
- 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   2.5W nominal

ACCURACY

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

DISPLAY

- Type   red LED (0.4") 10 mm. high
- Resolution   ± 1999 counts (3½ digits)
- Sensor-break indic   0± C or 1999. (s/model)
- A/D conversion technique   dual slope
- Reading rate   2.5 per second

ENVIROMENTAL

- Operating temperature   0° to 50°C
- Storage temperature   -25° to +85°C
- Relative humidity   max. 95% (non condensing)
- Weight   310g
- Dimensions   72x36x110mm. (s/DIN 43700)
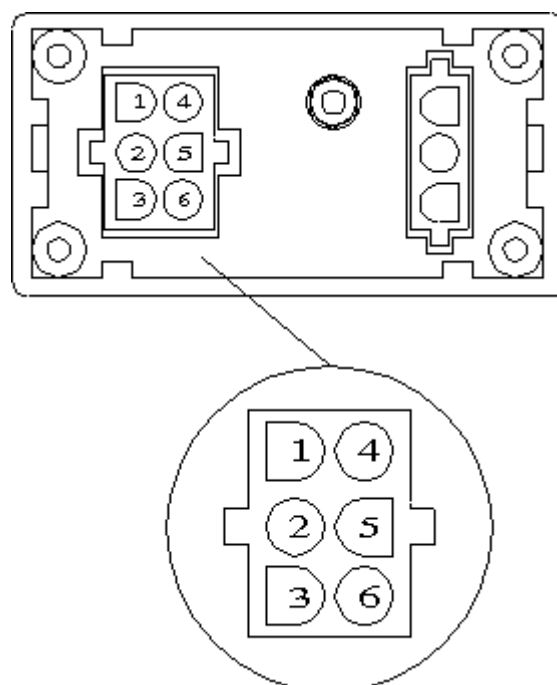- Panel cutout   68x33mm. (s/DIN 43700)
- Case material   p94 V-0 UL-rated polycarbonate

OPTIONS (SERIE 7000)

● 1 front panel screwdriver-adjustable setpoint with two modes of ON/OFF control and switching hysteresis.
SPDT relay 8A @ 250VAC or 8A @ 40VDC.

DIMENSIONS (mm)
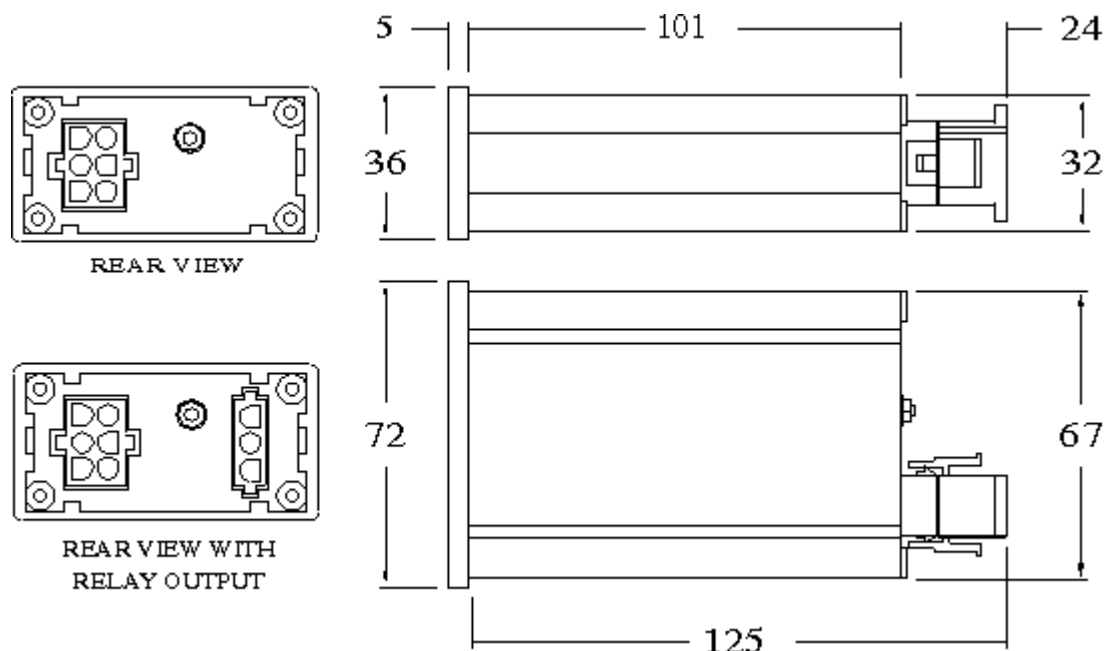
SIGNAL AND POWER CONNECTION

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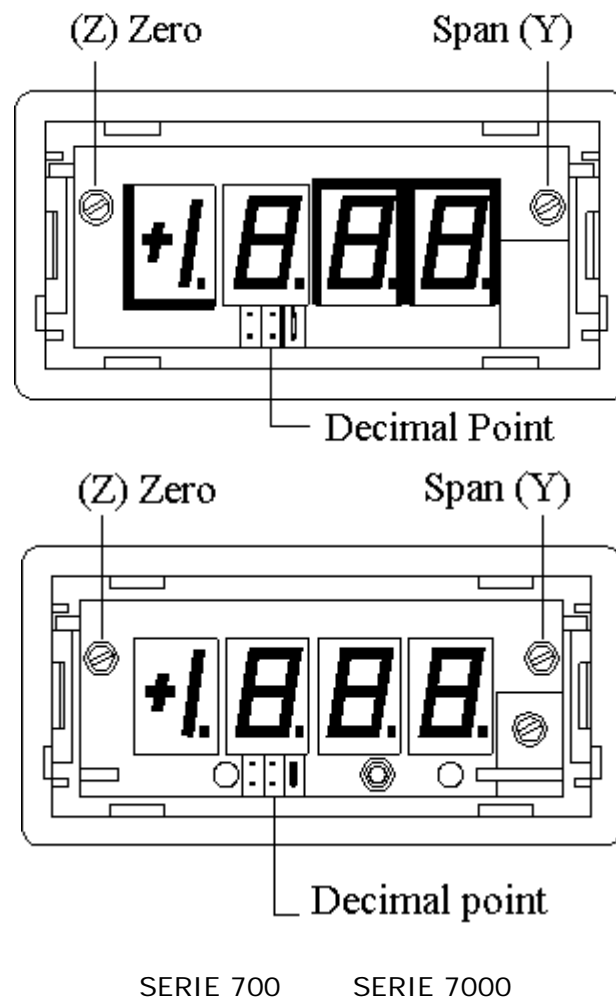PIN 3 Thermocouple input (-)

AC power supply

PIN 4 AC HI
PIN 5 Spare
PIN 6 AC LO (neutral)

DC power supply
PIN 4 DC positive (+)
PIN 5 Spare
PIN 6 DC negative (-)

SETUP CALIBRATION

SERIE 700   SERIE 7000

The **cold junction compensation** is made through the upper, left potentiometer (Z). Shortcircuit pins 2 and 3 and adjust until the ambient temperature is registered on the display.

The **span adjust** is made through the upper, right potentiometer (Y). Apply to pins 2 and 3 a milivolt signal corresponding to the difference between the adjust temperature and the ambient temperature.
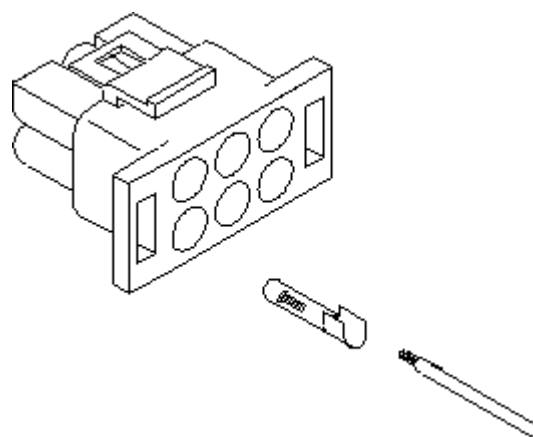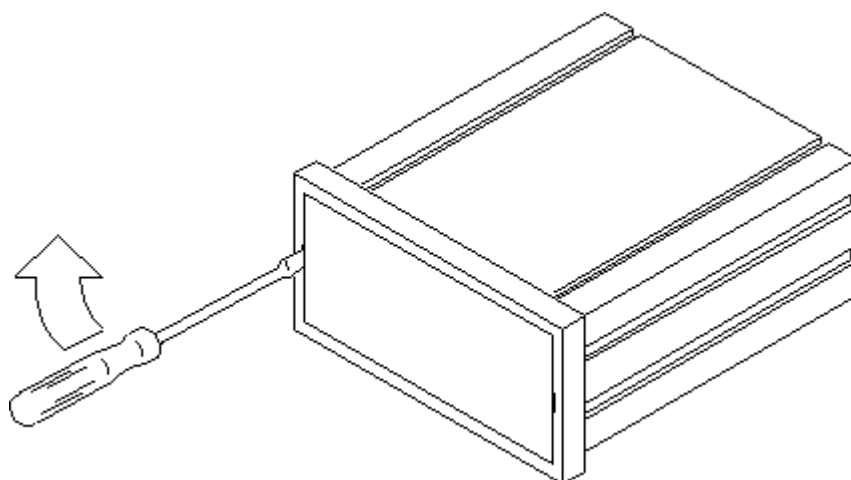
MOUNTING
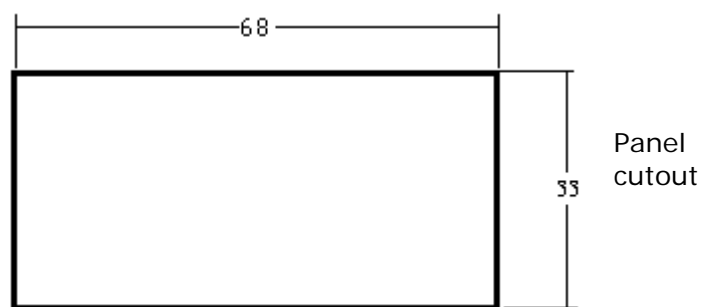
Min thickness: 0.8mm
Max thickness: 10mm
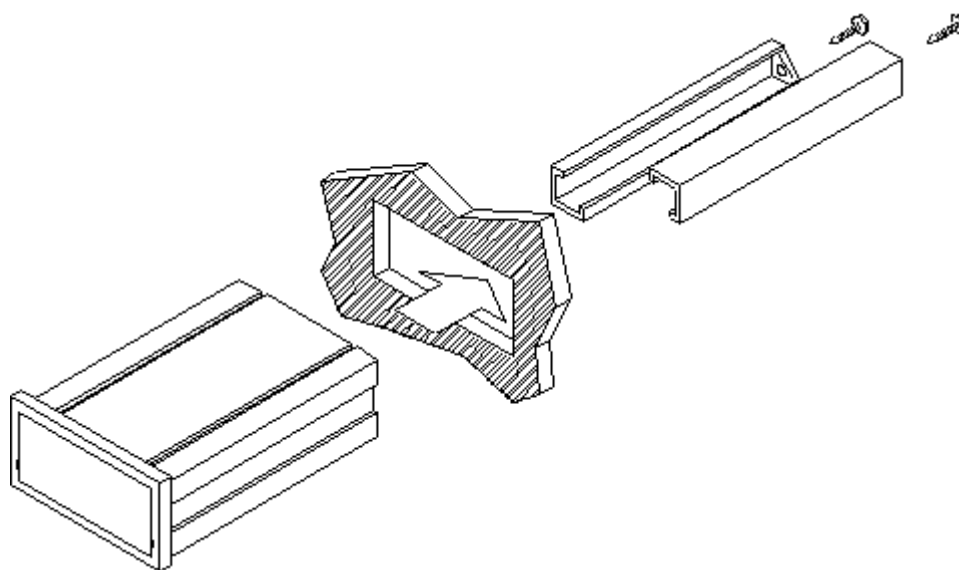
CONNECTORS

Signal and power connector :
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 oneside and press from the other until it is perfectly fitted.

Warranty:
Press the icon to see it.

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