

DITEL: PRODUCTS: DIGITAL STARS: 857SXYCX



DESCRIPTION

Model 857S panel thermometers are specific instruments that measure and control temperature or F.

They are available for five thermocouple inputs and are complete with linearization, sensor-brea detection and cold-junction compensation.

Available options include analog or digital outputs, and setpoint control which is programmable I either hidden or visible presets.

One selector provides adjustable time delay or hysteresis to limit relay action.

Fully configured at the factory, the following items remain accessible of reconfiguration:

- Cold-junction compensation and span adjustment.
- Preset values and alarm operating modes. Time delay (0 to 15 seconds) or hysteresis leve to 10 counts of L.S.D.).
- The output option for the type of signal and its range.

SELECTION GUIDE

	857	S	X	Y	C	X
PRESET/RELAY						
NO PRESET		0				
1 VISIBLE PRESET		1				
2 VISIBLE PRESETS		2				
1 HIDDEN PRESET		5				
2 HIDDEN PRESETS		6				
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		
		\Box				

24V 50/60Hz		7		
24V DC ISOLATED		8		
OUTPUTS				
NONE			0	
RS 232C			1	
BCD (OE)			2	
0-10V/0-1V			3	
0-20mA/4-20mA			4	
RS232/20mA			5	
BCD (OC)			6	
1mV/count			8	
SCALE				
Readout in °C				4
Readout in °F (J and T types only)				5
SILKSCREENED UNIT				

ORDERING EXAMPLE

8572 1254 E57: Thermocouple meter series 8000

Supply power: 230V AC (50/60Hz) Input type "J" (0-850 C) 2 presets Output RS 232/20mA Unit: ° C

SPECIFICATIONS

INPUT SIGNAL

• TC linearization

"J", "K", "T", "I • Thermocouple types

• Configuration differential asymm

• Cold junction compensation 0 to

• Maximum lead resistance

TC TYPE	TEMP MARGIN.		
"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 1500\ ± 40

DC Voltage:

POWER

analog by

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/1°F

• Maximum error 1% ±1°C/°F

DISPLAY

• Type red LED (0.56") 14 mm. high

• Polarity Automatic (-) sign

• Sensor-break indication < -273°C

• Reading rate 4 per second

ENVIROMENTALS

• Operating temperature 0° to 50°C

• Storage temperature -25° to +85°C

• Relative humidity max. 95% (non condensing)

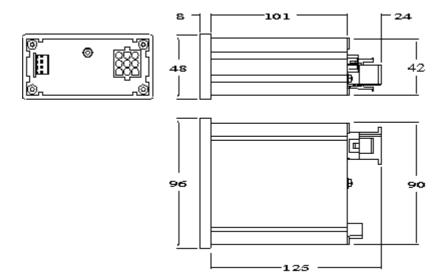
• Weight 380g

• Dimensions 96x48x110mm. (s/DIN 43700)

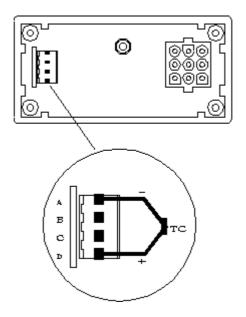
• Panel cutout 92x45mm. (s/DIN 43700)

• Case material 94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)



INPUT SIGNAL CONNECTION



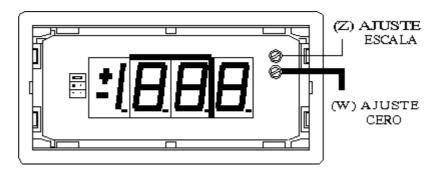
PIN A Thermocouple (-)

PIN B Spare

PIN C Spare

PIN D Thermocouple (+)

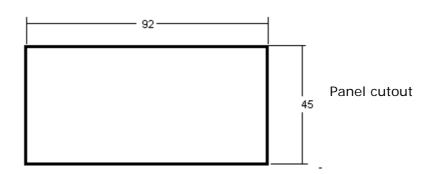
ZERO AND SPAN ADJUSTMENT



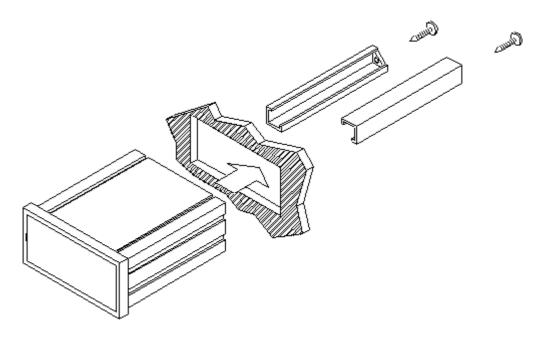
The **span adjust** corresponds to the potentiometer (Z) located to the upper, right side of the di The adjustment must be made in the middle point of the thermocouple range by applying an acc millivolt signal corresponding to the difference between the adjust temperature and the ambient temperature.

The **cold-junction compensation** is made via the potentiometer (W) located below the span potentiometer. Shortcircuit pins A and D at the input connector and adjust (W) until the display indicates the ambient temperature.

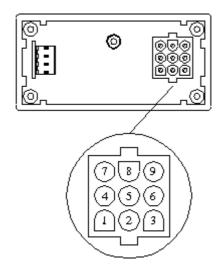
MOUNTING



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



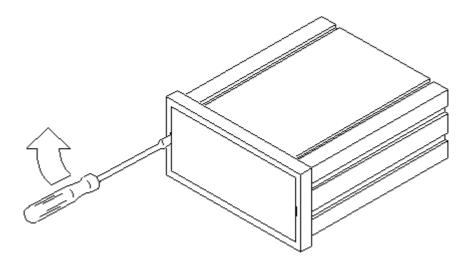
SUPPLY POWER CONNECTION



AC power supply PIN 7 AC HI PIN 9 AC LO (neutral)

DC power supply PIN 7 DC positive (+) PIN 9 DC negative (-)

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 perfectly

Warranty:

Press the icon to see it.



Change language | Back to the menu

