DITEL: PRODUCTS: DIGITAL STARS: **753S0Y0X**

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DESCRIPTION

Model 753S panel thermometers are specific indicators that measure and control temperature on the centigrade scale with an input that allows platinum sensors to be connected by 2- or 3-wire. Two temperature ranges are available; from -100° C to +800° C with a resolution of one degree, or from -99.9° C to 199.9° C with a resolution of one tenth of degree.
Fully configured at the factory, it is possible to change later the scale and the decimal point location by means of plug-in jumpers and readjust zero and span by two potentiometers which are accessible behind lens.
These indicators are available in 700 or 7000 series. The latter provides one analog setpoint that can be made to operate within two modes of ON/OFF commutation and switching hysteresis.

SELECTION GUIDE

753	S	0	Y	0	X
PRESET / RELAY					
NO SETPOINT (series 700)	0				
1 SETPOINT (series 7000)	4				
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		
RANGES					
-99.9 / +199.9°C					3
-100 / +800°C					4
SILKSCREENED UNIT					

ORDERING EXAMPLE

7534 0204 E57 : Pt100 thermometer series 7000 Power supply: 230V AC (50/60Hz) Scale: -100/+800 ° C. Unit: ° C 1 potent. adjustable analog setpoint

SPECIFICATIONS

INPUT SIGNAL

• Sensor type	RTD platinum 100 ohm
• Configuration	Wheatstone bridge
• Sensor connection	2 or3 wires
• Maximum sensor current	1mA
• Common mode max. voltage (signal/power)	
Power AC:	1000V DC or 1500V ACpp
Power DC:	±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	0.1°C (753S 0Y03) 1° (753S 0Y04)
• Maximum error	0.2% ±0.1°C (753S 0Y03) 0.2% ±1°C (753S 0Y04)

DISPLAY

• Type	red LED (0.4") 10 mm. high
• Resolution	± 1999 counts (3½ digits)
• Sensor-break indication	0°C or 1999. (s/model)
• Decimal point	selectable by jumpers
• A/D conversion technique	dual slope
• Reading rate	3 per second

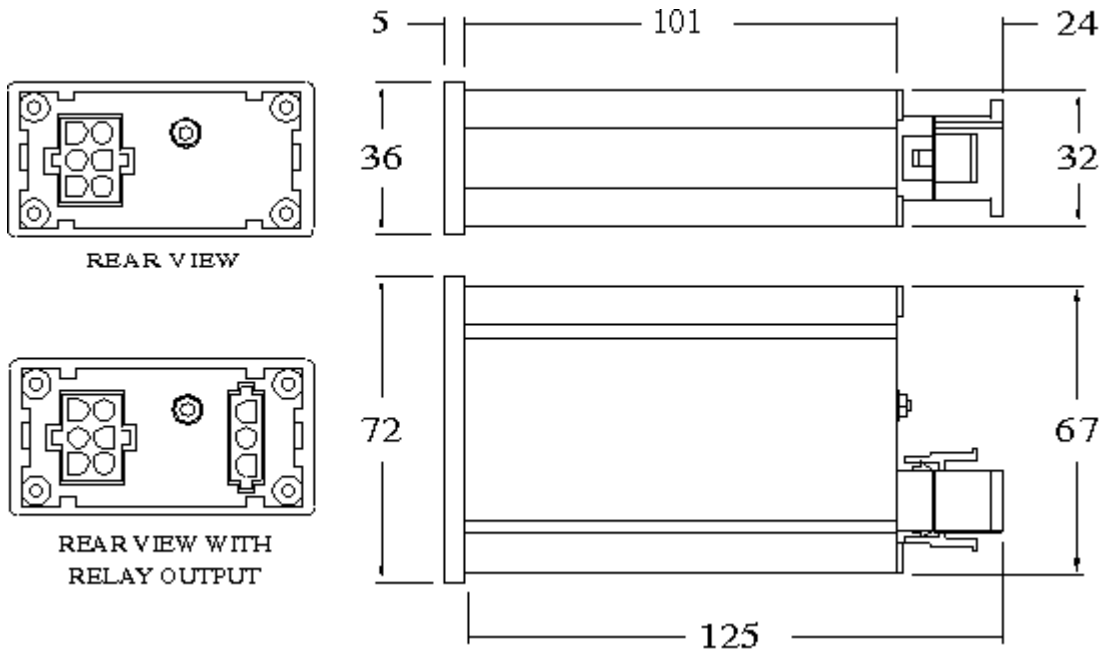
ENVIROMENTAL

• 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)
• Case material	94 V-0 UL-rated polycarbonate

OPTIONS (SERIE 7000)

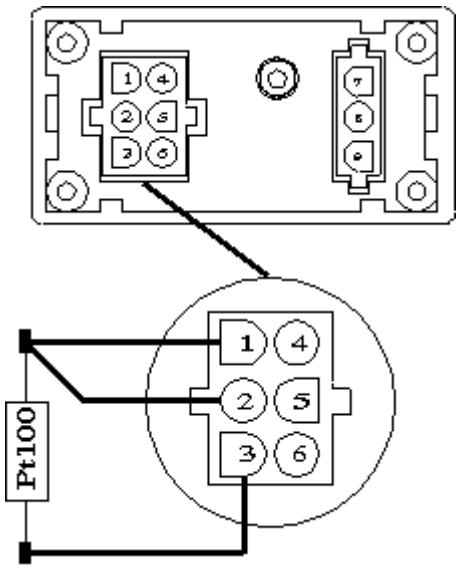
• 1 front panel screwdriver-adjustable setpoint with two modes of ON/OFF control and switching hysteresis. SPDT relay (8A @ 250VAC or 8A @ 40VDC).

DIMENSIONS (mm)



SIGNAL AND POWER CONNECTION

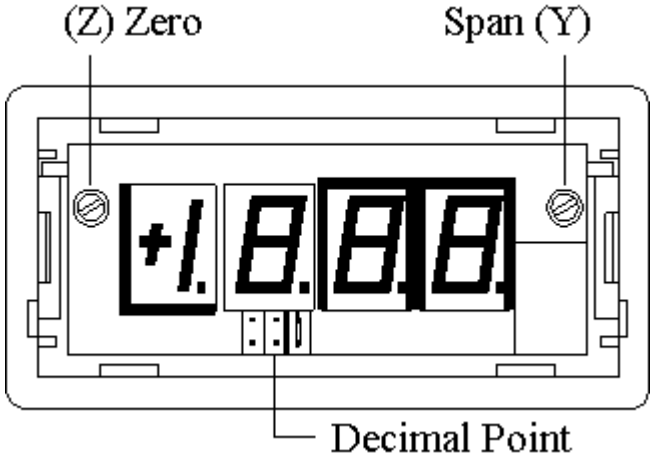
Input signal
PIN 1 Pt100
PIN 2 Pt100
PIN 3 Common Pt100

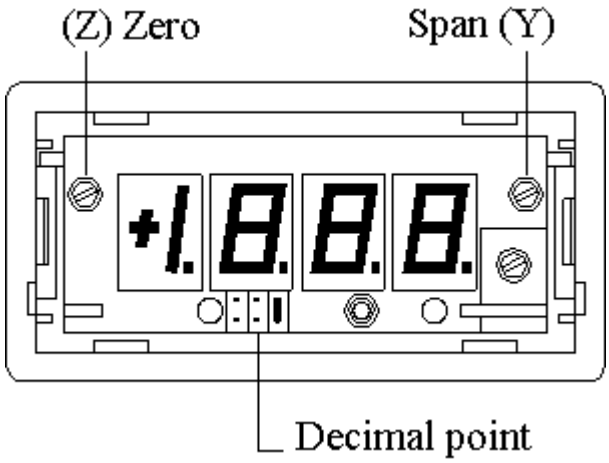


AC Power supply
PIN 4 AC HI
PIN 5 Spare
PIN 6 AC LO

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

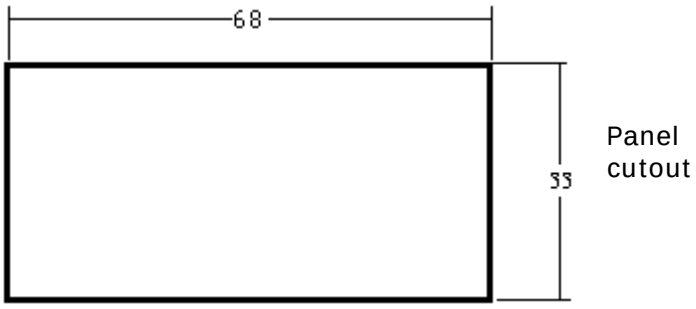
SETUP CALIBRATION



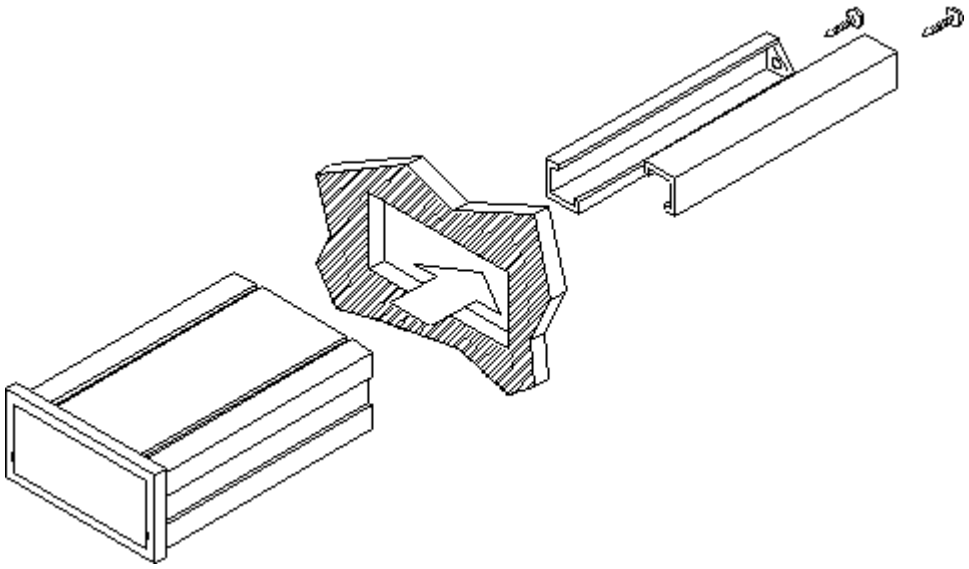


The frontal lens are removable to provide access to zero, span adjust and to decimal point location.
The decimal point position is factory-set according to the scale and is only necessary to modifie it when scaling is undertaken.
By placing the jumper in the position C, the display will present the measure with 1 decimal spare.

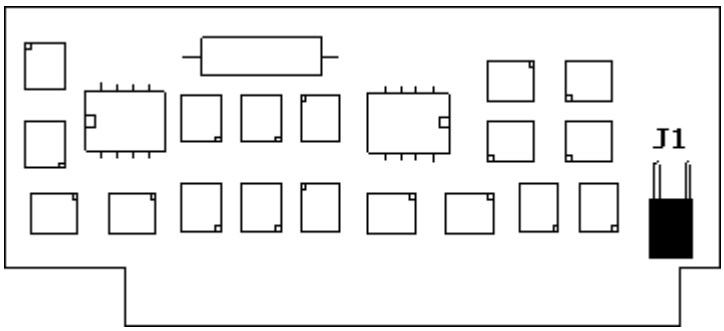
MOUNTING



Min thickness: 0.8mm
Max thickness: 10mm



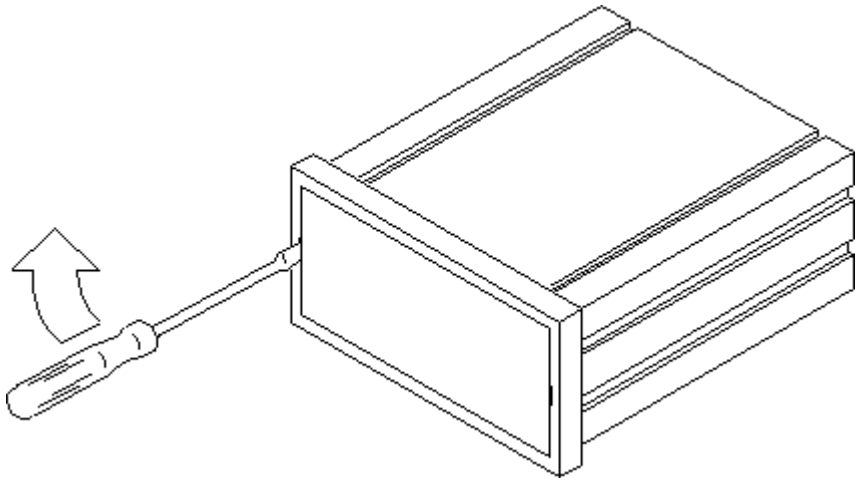
SCALING



To change the scale, place internal jumper J1 as indicated below and locate the decimal point to the proper position.

J1 ON = scale -99.9 / +199.9°C
(Place the jumper C on the display circuit to obtain the decimal point)
J1 OFF = scale -100 / +800°C

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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