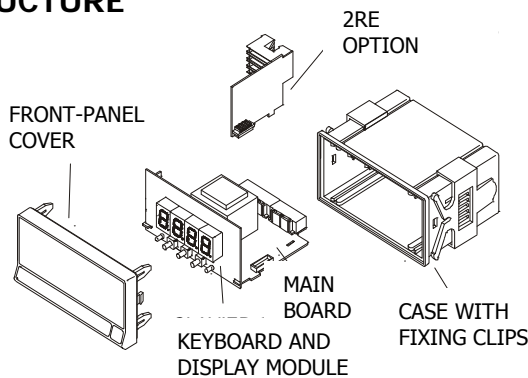


DESCRIPTION

The FD3300 model is small format, 3¾ digit instrument designed for temperature measurement with an input stage prepared for connection of thermocouples J, K or T sensors. Software configuration allows selection of sensor, reading units (Celsius or Fahrenheit) and resolution (degrees or tenths of degree) and offset. Optionally, it can be equipped with a 2-relay control output card (2RE). This option provides an output connector at the rear of the meter, status LED's visible from the front and specific programming routines which are enabled automatically once the card is installed.



STRUCTURE



CODIFICATION

1	2	3	4	5	6	Description
F	D	3				INPUT TYPE
			3			J, K & T Thermocouple temperature input
				1		POWER SUPPLY 115 / 230 Vac - 50/60Hz 12Vdc 24Vdc
				3		
				4		
					0	ALARM Without
					1	2 alarm relay outputs (High & Low)

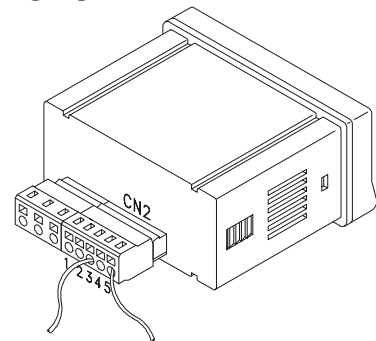
STANDARD

- Panel-mounting 1/8 DIN case, depth 60mm.
- Electronics assembly :
 - Main board.
 - Keyboard and display module.
- Fixing clips for panel mounting.
- Frontal sealing gasket.
- Plug-in terminal block connectors.

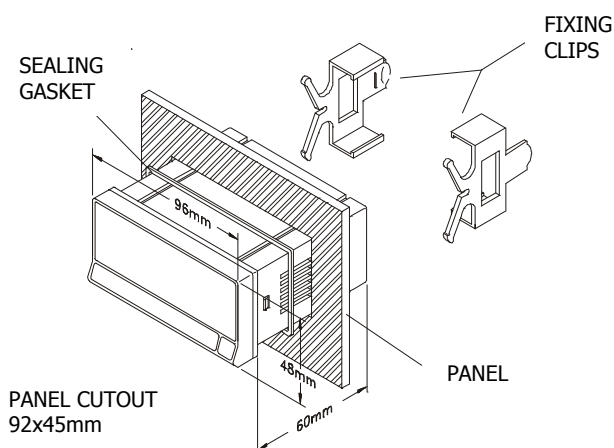
OPTIONS

- 2 SPDT relays rated 8A @ 250V AC Réf. 2RE

CONNECTIONS



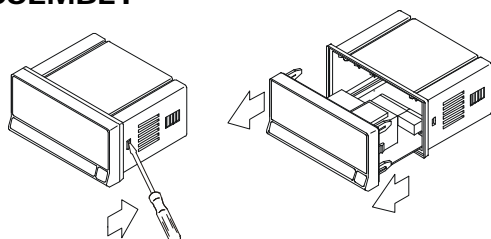
DIMENSIONS AND MOUNTING



CN1		POWER SUPPLY	
PIN		AC VERSION	DC VERSION
1		AC HI	+V DC
2		GND (GROUND)	-
3		AC LO	-V DC
CN2		INPUT SIGNAL	
PIN		THERMOCOUPLE INPUT	
1		- TC	
2		+ TC	
3		Not connected	
4		Not connected	
5		Not connected	

Thermocouple Panel Meter FD3300

DISASSEMBLY



POWER SUPPLY (JUMPER SELECTION)

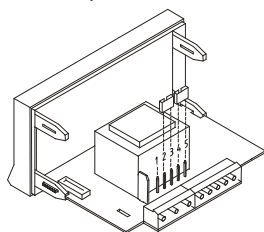
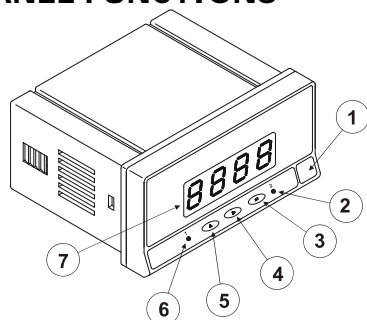


Table 1- Jumper setting.

Pin	1	2	3	4	5
230V AC	-	■	■	■	■
115V AC	■	■	■	■	-
48V AC	-	■	■	■	■
24V AC	■	■	■	■	-

FRONT-PANEL FUNCTIONS



	MODE	RUN	PROG
Label	1	Measurement unit	
Led 2	2	Setpoint 2 is active	Programming of the setpoint2
□ key	3	Shows programming data. Gives access to PROG	Validates programmed data. Advances one program step. Exit
➤ key	4	-	Shifts to the right
▲ key	5	-	Gives access to the setpoint values. Increments the active digit value.
Led 1	6	Setpoint 1 is active	Programming of the setpoint1
Display	7	Displays measured variable	Shows programming parameters

TECHNICAL CHARACTERISTICS

INPUT SIGNAL

- Configurationdifferential asymmetrical

- Configurationdifferential asymmetrical
- Cold junction compensation -10°C to +60°C

Temperature Ranges:

- TC "J" 0.1°C/°F -50.0 to 200.0°C / -58.0 to 392.0°F
- TC "J" 1°C/°F -50 to 850°C / -58 to 1562°F
- TC "K" 0.1°C/°F -50.0 to 200.0°C / -58.0 to 392.0°F
- TC "K" 1°C/°F -50 to 1250°C / -58 to 392°F
- TC "T" 0.1°C/°F -100.0 to 100.0°C / -148.0 to 212.0°F
- TC "T" 1°C/°F -200 to 400°C / -328 to 752°F

POWER SUPPLY

- AC voltages 115 V/230 V 50/60 Hz (±10%)
- DC voltages 12 V (10.5 à 16 V) DC
24 V (21 à 32 V) DC
- Consumption 3.5 W

ACCURACY at 23 °C ±5 °C

- Max error :
Pt100 (res. 0.1 °C) ± (0.1% of the reading +0.3 °C)
Pt100 (res. 1 °C) ± (0.1% of the reading +1 °C)
Pt100 (res. 0.1 °F) ± (0.1% of the reading +0.5 °F)
Pt100 (res. 1 °F) ± (0.1% of the reading +1.5 °F)
- Température coefficient 100ppm/ °C
- Warm-up time 5 minutes

FUSES (DIN 41661)

- FD3310 (115/230 V AC) F 0.1A / 250 V
- FD3330 (12 V DC) F 1A / 250 V
- FD3340 (24 V DC) F 0.5A / 250 V

A/D CONVERSION

- Technique Sigma-Delta
- Résolution ±15 bits
- Read data 25/s

DISPLAY

- Range -1999/ 9999, 20 mm LED rouge
- Decimal point programmable
- LEDs 2 indication état des seuils
- Reading rate 250 ms
- Display overrange indication OvE

ENVIRONNEMENTAL

- Working temperature -10°C a +60°C
- Storage Temperature -25°C a 80°C
- Relative humidity <95% a 40°C
- Max. Altitude 2000 m

MECHANICAL

- Dimensions 1/8 DIN 96 x 48 x 60 mm
- Weight 250 g
- Case material UL 94 V-0 Poly carbonate
- Sealed front panel IP65 (Indoor use)

ORDERING REFERENCES

- 115/230 V AC 50/60 Hz power supply FD3210
- 12 V DC power supply FD3230
- 24 V DC power supply FD3240

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