



## Expendable Thermocouple Temperature Meter IM400

- **Simple operation.**
- **Field configurable for disposable Platinum/Rhodium thermocouples R, S, B**
- **Portable operation (module with battery)**
- **Optional RS485 Communications**
- **5 years guarantee.**

### *General Description*

The IM400 immersion temperature meter was designed for the high temperature metal foundry industry.

Its handling is very simple and comfortable, the operator does not require to be pending of the instrument, is enough to introduce the lance and wait for the end-measurement sonorous signal .

By means of particular algorithms it is possible to obtain very precise estimations of the metal real temperature and simultaneously reduce significantly the measurement time.

The meter in format DIN 1/8 has 2 output relays, one to indicate measurement end and the other to indicate the state of thermocouple (Ok or break).

It can be fixed mount or portable by means of the accessory box that includes battery, charger and sonic alarm.

## Technical Specifications.

<b>Input</b>	Thermocouples (100 ohm max.):	J (-59, 760) °C
	Degrees Celsius or Fahrenheit	K (-103, 1372) °C
	It gives warning of TC break	T (-86, 400) °C
		R (0, 1768) °C
		S (0, 1768) °C
		B (0, 1820) °C
<b>Measurement</b>	Continuous:	Continuous measurement of the temperature.
	Normal:	It initiates the measurement with a sudden temperature increase, waits then it stabilize for ending the measurement .
	Estimation mode 1:	It makes square minimums estimations during the measurement for the final temperature. Ends once obtained the estimation, does not need to arrive at the final temperature to give the measurement.
	Estimation mode 2:	It operates in similar form to the previous mode but in addition it makes a digital filtering of thermal noise during the measurement.
	Reading:	Two Displays of 4 digits.
<b>Outputs</b>	Relays 250VAC/3A	Relay 1 indicates measurement end and relay 2 indicates broken thermocouple.
	Communications: (optional).	RS485, Connection to PC, printer or PLC.
<b>Source:</b>	Switching, current mode.	
	Ac:	85... 275 Vac, 7 W, 45... 65 Hertz.
	Dc option :	20... 50 Vdc, 7 W .
	Battery option:	10... 15 Vdc, 4 W max. (no isolated).
<b>Construction:</b>	Aluminum and Polycarbonate	IP65
	Total Dimensions:	DIN 1/8; 96 x 48 x 175 mm.
	Panel cut	92 x 45 mm.
	Weight:	300 grams.
	Operation temperature	0... 50 °C.
<b>Portable unit</b>	Portable Aluminum box that it includes:	Charger 85...265 Vac, 10 W Battery 1,2Ah 12V, It allows 4 hours of continuous use. Sonorous alarm to indicate measurement end.

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## PART CODES:

Model:

IM400

IM400-P

Panel mount unit, AC power supply

Portable unit, alarm and battery charger

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## FOR MORE INFORMATION:

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