



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 bv means of the accessory box that includes

battery, charger and sonic alarm.

Technical Specifications.

Input	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
Measurement	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.
Outputs	Relays 250VAC/3A	Relay 1 indicates measurement end and relay 2 indicates broken thermocouple.
	Communications: (optional).	RS485, Connection to PC, printer or PLC.
Source:	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).
Construction:	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.
Portable unit	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.
CE directives	2006/95/EC	(LVD) Low Voltage Directive
	2004/108/EC	(EMC) Electromagnetic compatibility directive
Standards	Safety:	IEC61010-1:2010
	EMC immunity:	EN61326-1:2006 Industrial locations.
	EMC emissions:	EN61326-1:2006 Class B.

PART CODES:

Model:

IM400

Panel mount unit, AC power supply

IM400-P

Portable unit, alarm and battery charger

FOR MORE INFORMATION:**ARIAN S. A.**

El Comendador 2340

Santiago, Chile

Pone 56-2-24218333

arian@arian.cl

<http://www.arian.cl/>