

# PD2D PEAKDIP RANGE OF DIP TEMPERATURE INDICATORS



**PEAKDIP** is designed for use in the foundry or steelworks, in conjunction with a dip arm & flying lead.

Digital techniques ensure maximum accuracy & reliability.

Sequence Indicating Lamps (Traffic Lights) inform the operator of progress through the measurement process.

The Green lamp indicates the thermocouple is plugged in correctly.

The Amber lamp advises that the temperature is rising.

PD2D's program searches for a steady temperature plateau, energises the Red lamp, advising operator to remove the probe from the melt.

Temperature is displayed for 15 seconds before automatic reset: A manual reset button on the front of the panel overrides this.

It is available, as standard, for use with Type 'B', 'K', 'N', 'R' or 'S' thermocouple, degrees Celsius or Fahrenheit. ITS'90, IPTS'68 or IPTS'48 calibration may be specified.

Single or dual input versions are available.

## STANDARD FEATURES

Bold, bright Red LED display, 25mm or 55mm high.

Panel mounting or, in metal case, for wall mounting.

A low operating temperature version of Peakdip enables it to work accurately down to  $-22^{\circ}\text{C}$  ( $-8^{\circ}\text{F}$ ) ambient temperature: Siberian Specification, SS20.

**PEAKDIP** has 3 separate serial output signals:-

RS 232 to Computer

RS 232 to Printer

RS 485 to drive slave indicator(s)

Power Supply 100/110 or 220/230v, 50/60Hz.

Built-in Real Time Clock.

## MELTING TEMPERATURE CONTROL

**PEAKDIP** may be used as the melt temperature input transmitter to the melting furnace temperature controller or computer: The Peak Held temperature acts as 'Measured Value', until updated by a further dip temperature measurement.



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## SPECIFICATION

### THERMOCOUPLE RANGES:-

PD2D 'K'	-270 to 1372 deg. C for NiCr/NiAl	Type 'K48' or 'K90'
or	-454 to 2500 deg. F for NiCr/NiAl	Type 'K48' or 'K90'
PD2D 'N'	0 to 1300 deg. C for NiCrSi/NiSi	Type 'N90'
or	0 to 2400 deg. F for NiCrSi/NiSi	Type 'N90'
PD2D 'R'	0 to 1768 deg. C for Pt13%Rh/Pt	Type 'R48' or 'R68'
or	0 to 3214 deg. F for Pt13%Rh/Pt	Type 'R48' or 'R68'
PD2D 'S'	0 to 1768 deg. C for Pt10%Rh/Pt	Type 'S48' or 'S68'
or	0 to 3214 deg. F for Pt10%Rh/Pt	Type 'S48' or 'S68'
PD2D 'B'	300 to 1820 deg. C for Pt30%Rh/Pt6%Rh	Type 'B90'
or	570 to 3310 deg. F for Pt30%Rh/Pt6%Rh	Type 'B90'

Automatic Cold Junction Compensation.

INTERNATIONAL CALIBRATION STANDARDS: ITS'90, IPTS'68 & IPTS'48.

AUTO. COLD JUNCTION COMPENSATION RANGE: 0 to +55°C (32 to 131°F) or Siberian Specification, SS20: -22 to +55°C (-8 to 131°F).

ACCURACY: +/- 0.1% of reading +1°C or F.

RESOLUTION: 0.1° up to 200° then 1° above 200°C or F.

POWER SUPPLY: 100/110 or 220/230Vac. 50/60Hz.

### STANDARD FEATURES

DISPLAY: 25 or 55mm Bright Red, LED Sequence Indicating LEDs (Traffic Lights), Green, Amber, Red.  
Built-in real time clock/calendar.

#### THREE SEPERATE SERIAL DIGITAL OUTPUTS:-

RS232 to Printer

RS232 to Computer

RS485 to Repeat Indicator(s).

Input/Output program disc included for client's computer, compatible with Windows 95, 98, 2000, NT & XP.

BROKEN THERMOCOUPLE: Display shows '- -' flashing.

If thermocouple breaks during a measurement, latest measured value is diplayed, flashing.

OFF-SCALE INDICATION: e.g. Type 'B' at ambient, display shows '- -'.

REVERSED INPUT: Counts down to -60 then changes to '- -' flashing.

Standard Dip Arm, 16mm x 1.25 metre with 30 degree bend:

Longer, shorter or larger diameters, can be supplied.

Automatic Plateau Detection Reading held for 15 seconds before automatic switch off.

WEIGHT: 7Kg.

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