

DPP3D RANGE OF DEPENDABLE PORTABLE FOUNDRY PYROMETERS FOR ALL MOLTEN METAL TEMPERATURES



DPP3D is a rugged battery powered portable pyrometer with a 4 digit green or red LED display. Digital techniques ensure maximum accuracy & reliability.

The standard 1.25 metre steel dip arm, holding the thermocouple or its extension lead is normally hard wired and mechanically clamped to the DPP.

DPP3D is ranged for use with Type 'B', 'K', 'N', 'R' or 'S' thermocouples in degrees Celsius or Fahrenheit, for ITS'90, IPTS'68 or IPTS'48 International Calibration Standard.

DPP3D 'K' can be supplied with a hard wired or plug-in Accutip II or Marshall swaged dip arm or, alternatively, KWIKTIP K-90 dip arm.

DPP3D 'N' is supplied fitted with an Accutip II swaged dip arm.

DPP 'B', 'R' & 'S' usually have dip arms with a connector for plug-in expendable thermocouples.

A low operating temperature version of DPP3D is available: DPP3D-SS to Siberian Specification SS20, functions accurately down to -22°C (-8°F). Its built-in 'Battery Watchdog' module protects the battery pack against being recharged below 0°C & overcharging.

The sequence Indicating Lights, at the side of the display plus various display signals keep the operator fully informed of progress through the measurement process.

A red LED advises when to withdraw the probe from the melt.

The battery pack is recharged from the mains, using DPP's plug-in, constant current charger: Specify 100/110 or 220/230Vac, 50/60Hz.

A version of DPP, SMARTDIP3D also stores data: Separate data sheet.



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SPECIFICATION

THERMOCOUPLE RANGES:-

| | | |
|---------|---------------------------------------|---------------------|
| DPP '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' |
| DPP 'N' | 0 to 1300 deg. C for NiCrSi/NiSi | Type 'N90' |
| or | 0 to 2400 deg. F for NiCrSi/NiSi | Type 'N90' |
| DPP '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' |
| DPP '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' |
| DPP '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' |

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°C or F above.

POWER SUPPLY: 6 volt, Nickel Metal Hydride rechargeable battery pack or 4 x MN1500 Alkaline 1.5V cells, in battery holder.

STANDARD FEATURES

DISPLAY: 10mm Bright Green or Red, LED Sequence Indicating LEDs (Traffic Lights), Green, Amber, Red.
Built-in real time clock/calendar.

LOW BATTERY VOLTAGE INDICATION: '. . . .' flashing.

BROKEN THERMOCOUPLE: Display shows '- -' flashing.

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

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.

BATTERY CHARGER: External, plug-in 70mA stabilised.

CURRENT: specify 100/110 or 220/230Vac., 50/60Hz.

Automatic Plateau Detection Reading held for 15 seconds before automatic switch off, unless Reset button is pressed.

Weight with standard 1.25m dip arm: 2.5Kg.

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