

Digicarb/14



Made in the UK 

Description

DIGICARB/14 is a digital instrument used in the automatic thermal analysis of molten iron. It is designed for use with plug-in, fast response, type K thermocouple sample cups.

A 7 position switch enables selection for the continuous monitoring of:

- Liquidus temperature
- Solidus temperature
- Carbon Equivalent Liquidus (CEL) or C.E. Value (CEV) %
- Carbon %
- Silicon%
- Phosphorus % - a pre-set, adjustable value
- Silicon Offset % - a pre-set, adjustable value

A separate switch allows for the continuous measurement of the cooling curve temperature, liquidus and solidus temperatures are momentarily displayed.



Features

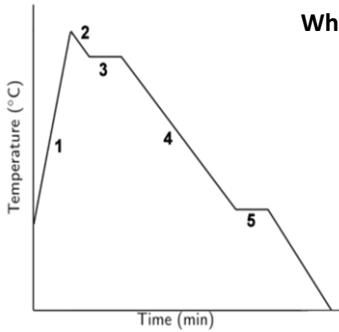
- BCIRA formulae, for Tectip/Carbon Cup or Quik-Cup formulae
- Traffic light system keeps the operator informed throughout the analysis/measurement process
- Digicarb/14 can be finely tuned to your cooling curve
- Can also be used as a carbon and silicon calculator
- Displays in degrees Celsius or Fahrenheit
- Windows XP and onwards download provided
- Steel, dust proof case may be bench, panel or wall mounted
- Available with RS232/RS485 outputs for connection to PC, printer or repeat indicator

Application

- Commonly used in iron foundries
- Thermal analysis of molten iron
- Continual monitoring of the cooling curve temperature

Specification

Product	Digicarb/14
Type	K Thermocouple
Temp Range	0 to 1372°C or 0 to 2500°F
Range	2.50% to 4.80% for C.E.L or C.E.V Carbon 2.10% to 4.20% Silicon 0.50% to 3.60% Phosphorus 0.00% to 0.99% Silicon offset -0.99% to +0.99%
Ambient Temp range	0 to 55°C as standard -22 to 55°C also available
Weight	7Kg
Power Supply	220/230V or 50/60Hz as standard 100/110V also available
Accuracy	Temperature +/- 0.1% of reading or +/- 1°C/°F Other analysis +/- 0.1%
Resolution	Temperature 1°C or °F Other analysis +/-0.1%
Calibration	ITS'90, IPTS'68 & ITPS'48 UKAS traceable
Part Number	MTDIO / MTDIW



When ordering please specify:

1. Initial temperature rise
2. Subsequent fall from peak
3. Liquidus arrest temperature
4. Secondary temperature fall
5. Eutectic arrest temperature

Also specify the manufacturer of your thermal analysis cups

We calibrate
sensors up to
1100°C

Visit our calibration
page to find out more



For more information visit:

sterlingsensors.co.uk