



Celsius - 20

Non-destructive Temperature Measurement System

PRODUCT DESCRIPTION

Cerulean presents the Celsius 20 measurement system offering a fast, accurate method for non-destructive and non-invasive temperature measurement of a wide variety of food products. By measuring the temperature of products without breaking the outer packaging or the product itself, the Celsius 20 drastically reduces waste and increases throughput and profit.

The measurements are performed using microwave thermometry which measures the equilibrium temperature rather than the surface or core temperature. This produces fast, consistent and accurate readings because the temperature measurement is not reliant on the positioning of a temperature probe.

Celsius is not an alternative but the new standard offering for superior quality assurance. It does not miss hot or cold spots as it takes into account the entire product, giving the 'desired' equilibrium temperature.

Offering increased production efficiency, the Celsius 20 offers the quickest results available to the industry, with minimum operator skill and considerable savings. With impressive paybacks, savings are made due to the removal of product wastage, packaging, replacement probes and rejected product. It provides reliable, repeatable and robust measurements in a fast, simple and effective way.

FEATURES

- Simple operation
Open door, place product, close door, read temperature
- Non-destructive temperature measurement
No damage to packing or product thus reducing waste
- Optional USB bar-code scanner
Operator and product data filed entry reduces errors
- Mean temperature measurement
provides more confidence than probes or infra-red
- CSV file stored on the device for historical data retrieval
- Set up of up to 99 SKUs and limits identified from barcodes
- Set up of machine users via administrator
- Intuitive user Interface via 8.5" touchscreen

APPLICATIONS

- Packaged and unpackaged food
- Mid-line sampling
- End-of-line sampling

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OPTIONS

USB Barcode Reader Stock code: 91556

Beacon Alarm System Stock code: 91557

Cerulean recommend the use of a suitable reference material for verification of the device

TECHNICAL SPECIFICATIONS

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| Electrical requirements: | 110 V / 60 Hz 240 V / 50 Hz | |
| Ambient operating temperature: | 5°C to 40°C (- 41°F to 104°F) | |
| Operating humidity: | 40 to 90% RH non-condensing | |
| External dimensions: (H x W x D) | 350 mm x 490 mm x 380 mm (approx.) | |
| Weight: | ~ 17.5 kg | |
| Product temperature range: | 0°C to 30°C (32°F to 86°F) - 25°C to - 5°C (- 13°F to 23°F) - 30°C to - 25°C (- 22°F to -13°F) | Chilled & ambient Frozen Extended Frozen |
| Product accuracy: (using reference liquids under laboratory conditions) | ± 0.5°C (Chilled & ambient) ± 1.5°C (Frozen) ± 2.0°C (Extended frozen) | |
| Maximum product size: (H x W x D) | 160 mm x 385 mm x 215 mm | |
| Data interfaces: | Ethernet, USB | |
| Operator display: | 8.5" Full colour Touch screen | |
| Controls: | 8.5" resistive touch-screen colour user interface Power on/off | |



All organic matter naturally emits thermal radiation, generated by random movement of molecules.



Celsius detects these thermal signals and uses them to calculate the average temperature.



The process is non-invasive, eliminating product wastage and reducing cost.

TO ORDER Please contact your Cerulean Sales Manager for further details

Celsius 20 (110 V)

Stock code: TBC

Celsius 20 (230 V)

Stock code: TBC

USB Barcode Reader

Stock code: 91556

CERULEAN

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