Easy Start

LABORATORY REFRACTOMETER FOR CONCENTRATION ANALYSIS

he LR02 "Easy Start" refractometer with microprocessor is Maselli's latest laboratory instrument. It has been designed to be accurate,

instrument. It has been designed to be accurate, sturdy, compact and easy to use. Thanks to its battery power supply and carrying handle, it is easy to transport and use without being connected to a mains power supply.

Its waterproof keyboard and its stainless steel structure mean it can be safely used directly in the production area. By simply lowering the cover, without pushing a single button, the LRO2 "Easy Start" refractometer measures the sample's refractive index, calculates its concentration (Brix o User), displays the information on an LCD unit with back lighting and sends the recorded value to an optional external printer or to a PC.

The project has been developed using state of the art technology, which guarantee a high level of precision and reliability, such as the sapphire prism, the LED long-life light source and high-resolution digital optical CCD sensor.

The main applications for the LR02 laboratory refractometer are in the food and drink, chemical, petrochemical and textile industries.





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TECHNICAL CHARACTERISTICS

Measurement limits:

1.3330...1.5318 nD (0...95 Brix)

Accuracy

(1.3330...1.3811 nD): ±0.00007 nD (0...30 Brix): ±0.05 Brix

(>1.3811...1.5318 nD): ±0.0014 nD (>30...95 Brix): ±0.1 Brix

Measurement scales:

(5 parameter)

- nD
- Brix ("Brix" Scale refers to the nD/Brix ICUMSA 1974 conversion tables)
- HFCS42 special iso-glucose scale
- HFCS55 special iso-glucose scale
- "USER" scale can be configured based on measurement parameters required

Temperature Compensation:

- Automatic between +5 °C...+45 °C (+41 °F...+113 °F)
- For USER field scales, compensation refers to value setting applied

Interfaces:

RS232 (for printer or PC)

Supply:

External power supplier:

- AC input 115/230V ±10% 50...60Hz 10VA DC output 7.5V 420mA

Batteries:

- Battery case (optional) for 5x1.5V batteries or 5x1.2V 2000mAh

CONSTRUCTION CHARACTERISTICS

Measurement prism:

In synthetic sapphire

Light source:

High efficiency LED electronically compensated

Element of refractometric measurement:

High resolution CCD

Element of temperature measurement:

Internal Pt1000

Controls:

Keypad in scratch-proof polyester

Display:

Backlit graphic LCD display 128x24 point

Language:

Choice of 5 interface languages (English, German, French, Italian, Spanish) for the display of menus and messages

Execution:

- AISI 304 Stainless steel
- Protection IP65 (EN60529)

Weight:

6 kg (13.2 lb)

Sample volume:

1 cc min.

Materials in contact with the process fluid:

- 316 AISI stainless steel
- Synthetic sapphire
- PTFE

(others on request)

Dehumidification:

The optical section of the unit is dehumidified by means of a Molecular Sieve desiccant cartridge

ACCESSORIES

- Battery carrying case
- External table battery charger
- Graphic or continuous reel printer



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