

LR

O2

Easy Start

LABORATORY REFRACTOMETER

The microprocessed-based LR02 Easy Start automatic refractometer is Maselli new instrument for laboratory use: it has been designed to be accurate, compact and user friendly.

The unit can work also with alkaline batteries being easy to be moved to different locations using the dedicated handle: the waterproof membrane keypad and stainless steel enclosure assure trouble-free operation even in process area. Simply closing the cover, without even the need to push a button, the LR02 Easy Start measures the refractive index of the sample, calculates its concentration and presents the value on the backlit LCD digital display. The measured values can be sent to an external printer or computer. The unit has been designed using the most advanced technologies such as **sapphire prism, long life LED light source and high resolution CCD digital optical sensor** to achieve high accuracy and reliability. Primary applications for the LR02 Easy Start laboratory refractometer include food, beverage, dairy, chemical, petrochemical and textile industry laboratories.



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PROCESS ANALYZERS

GENERAL CHARACTERISTICS

Technical specifications

Measurement Limits:

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

Accuracy:

- ± 0.0001 nD (± 0.08 Bx)

Measurement units:

N°5 measurement scales selectable from the keypad:

- nD
- BRIX; BRIX" scale refers to the nD/Bx ICUMSA (1974) conversion tables
- HFCS42 and HFCS55 with adjustable Zero Value
- n°1 "USER" scale totally configurable from the utility software

Temperature Compensation:

- $+5^{\circ}\text{C} \dots +45^{\circ}\text{C}$ with automatic compensation of temperature measured by ceramic "Pt1000" Sensor, Class "B" according to IEC751
- compensation for "User" scale ranges refers to the values set on the utility software.

Output Signals:

- RS232 for connection to a PC or a Printer

Power Supply Requirements:

- AC 115/230V $\pm 10\%$ 50...60Hz, DC 7.5V 420mA
- Battery case (optional) for: 5x1,5 V type AA alkaline batteries or 5x1,2 V 1600 mAh Ni-MH rechargeable batteries

Construction Characteristics

Prism Material:

- Synthetic Sapphire

Light Source:

- LED (Light Emitting Diode)

Measurement Element:

- High resolution CCD sensor element (Charge-Coupled Device)

Temperature Compensation:

- Internal 1000 Ohm RTD sensor

Input keypad:

- Polyester membrane keypad, waterproof

Display:

- 128x24 points Backlit graphic LCD display, with "LCD Saving" function

Analysis Basin:

- Stainless steel, with cover and cover position sensor

Sample Volume:

- ~ 0.3 cc per analysis

Enclosure and Analysis Basin:

- Stainless steel
- IP65 to EN60529 Protection

Weight and Dimensions:

- ~ 6kg (13.2lb)
- 160 (w) x 130 (h) x 260 (d)
(6.3" x 5.1" x 10.2")

Accessories

Standard:

- Utility software on diskette for bi-directional communications with PC computer

Optional:

- Graphic or continuous reel printer
- Battery charger set for Ni-MH rechargeable batteries



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- STABILIMENTO
- UFFICI AMMINISTRATIVI
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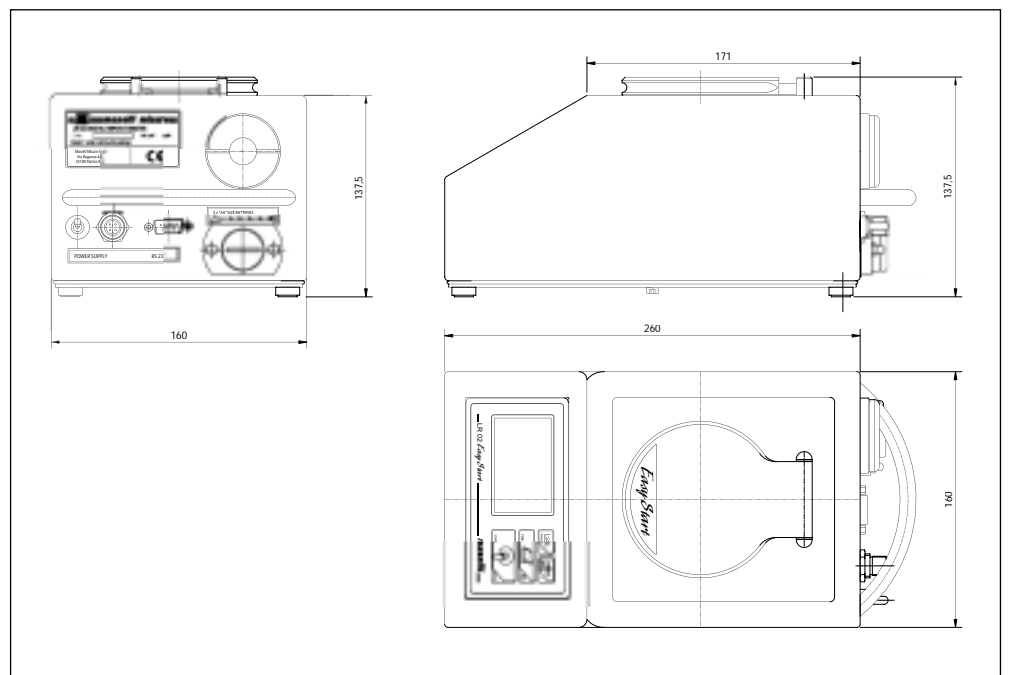
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