



## **THE STATE OF THE ART**

### **laboratory refractometer**

The LR02 “Easy Start” refractometer 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 LR02 “Easy Start” refractometer measures the sample’s refractive index, calculates its concentration (Brix or 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.

#### **BENEFITS**

- Accuracy based configuration
- Brix, nD and User scales
- Wide range of applications
- No maintenance

# **LR02**

**LABORATORY**

**BRIX, nD AND % CONCENTRATION OF THE LIQUIDS**

## OPERATING SPECIFICATIONS

|                      |  |
|----------------------|--|
| Measurement range:   | 1.3305...1.5318 nD 0...95Bx  |
| Accuracy:            | (1.3300...1.3811 nD): 0.00007 nD<br>(0...30 Brix): 0.05 Brix<br>(>1.3811...1.5318 nD): 0.00014 nD<br>(>30...95 Brix): 0.1 Brix |
| Measurement scales:  | N° 5 measurement scales: nD, BRIX, HFCS42, HFCS55 and 1 "USER" scales totally configurable.                                    |
| Product temperature: | 5...45 °C with automatic compensation of temperature   |

## TECHNICAL FEATURES

|                              |   |
|------------------------------|---|
| Quantity of analyzed sample: | ~3 cc for analysis  |
| Power supply:                | - External power supply:<br>AC input 115/230V $\pm 10\%$ 50...60Hz<br>DC output 7.5V 420mA<br>- Batteries:<br>Battery case (optional) for 5x1.5V AA alkaline batteries or 5x1.2V 2000mAh Ni-MH rechargeable |
| Protection Category:         | IP65 to EN60529   |

*Please refer to the technical datasheet for further data.*

More products  
for the analysis of  
liquids concentration

### UR24

Process  
Refractometer  
Ultimate



### UR62

Process  
Refractometer Basic



### LR05

Lab Refractometer



**M maselli**  
PROCESS ANALYZERS

43122 Parma - Italy - Tel. +39.0521.257411  
[www.maselli.com](http://www.maselli.com)

