

## THE STATE OF THE ART

### laboratory refractometer

The LR05 laboratory refractometer has been designed to be accurate, robust and easy to use. 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 intuitive software interface is available on a wide 6.5 inches touchscreen panel PC which allows easy interface by means of USB ports (ethernet available).

#### Benefits

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

The LR05 unit measures the sample refractive index calculating its concentration that may be displayed in different ranges: Brix, nD, % concentration. The LR05 may be delivered in 3 different models: standard, high and super accuracy. All the measurements are automatically temperature compensated: an optional flow cell is available for corrosive products. Main application fields are within industrial laboratories in the food, chemical, pharmaceutical and textile sectors.

# LR05

## LABORATORY REFRACTOMETER

BRIX, nD AND % CONCENTRATION OF THE LIQUIDS

## OPERATING SPECIFICATION

### LR05 SA (Super Accuracy)

Measurement range:	1.3271 ... 1.5318 nD (0...95Bx)
Accuracy:	+/- 0.00002 nD (+/-0.01Bx)
Measurement scales:	nD, BRIX, unlimited "USER" scales totally configurable.
Product temperature:	5...60 °C with automatic compensation of temperature

### LR05 HA (High Accuracy)

Measurement range:	1.3271 ... 1.5318 nD(0...95Bx)
Accuracy:	+/- 0.00005 nD (+/-0.03Bx)
Measurement scales:	nD, BRIX, unlimited "USER" scales totally configurable.
Product temperature:	5...45 °C with automatic compensation of temperature

### LR05 ST (Standard Accuracy)

Measurement range:	1.3271 ... 1.5318 nD(0...95Bx)
Accuracy:	+/- 0.00007 nD (+/-0.05Bx)
Measurement scales:	nD, BRIX, unlimited "USER" scales totally configurable.
Product temperature:	5...45 °C with automatic compensation of temperature

## TECHNICAL FEATURES

Quantity of analyzed sample:	~ 3 cc
Measuring Time:	Approx. 5 sec
Power supply:	AC 100/240V, 1.5A, 50/60Hz DC 24V 50W
Interface:	Windows based' touchscreen panel
Outputs:	Ethernet – 2xUSB
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



### LR02

Portable lab refractometer



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