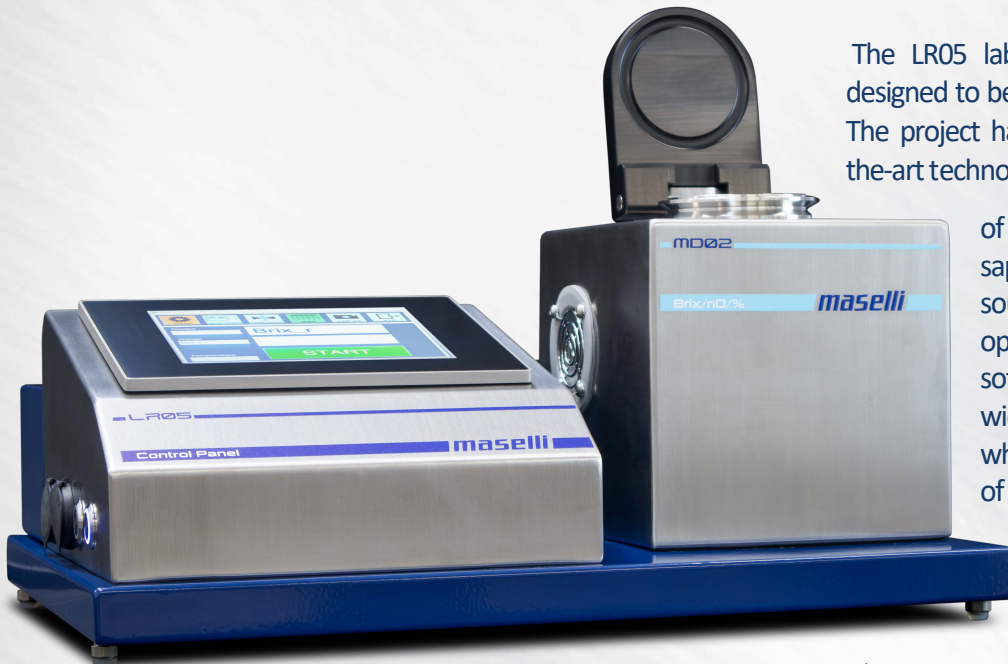


## THE STATE OF THE ART

### 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 guarantees a high level

of precision and reliability, such as the sapphire prism, the LED long-life light source, and a 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).

The LR05 unit measures the sample refractive index calculating the sample's concentration that may be displayed in different ranges: Brix, nD, % concentration. The LR05 may be delivered in 3 different configurations: Standard, High, and Super Accuracy. All the measurements are automatically temperature compensated: an optional flow cell is available for corrosive products. The main application fields are within industrial laboratories in the food, chemical, pharmaceutical, and textile sectors.

#### Benefits

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

# LR05

## LABORATORY REFRACTOMETER

BRUX, 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



**maselli**  
PROCESS ANALYZERS

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

