

# LABART DIGITAL UREA DEF REFRACTOMETER

**UREA, RI & Density (3 in 1) LB-DR-605**

AdBlue, a mixture of distilled water and synthetic urea (Urea), is used in the automotive industry as a diesel additive. It is used to reduce the nitrogen oxide emissions and to comply with the legally prescribed emission standards. The digital AdBlue refractometer from LABART has been specially designed to perform a precise analysis of the urea solution. In this way, with the help of the AdBlue refractometer, the user can carry out an uncomplicated quality control, check the urea concentration of the diesel additive AdBlue and determine whether the solution meets the requirements of the automotive industry.

LABART-DR series Portable Digital Refractometers are microprocessor-based with laboratory accuracy to be able to accurately and instantly measure the refractive index(RI) , concentration and other parameters for many kinds of liquids, which also have a friendly operation pattern and display field as well as an automatically temperature compensation system, comparing with the traditional hand held ones they are much faster, more accurately, and clearly in measurements.

#### Measuring range

Urea 0 ... 51 %  
Refractive index 1.3330 ... 1.4200 nD  
Density: 1.32974~1.40945

#### Resolution

0.1 % / 0.0001 nD / 0.1 °

#### Accuracy

±0.2 % / ±0.0003 nD / ±0.5 °C

#### General specifications

Automatic temperature compensation (ATC) range: +10 ... +4+40 °C / +50 ... +104 °F  
Measurement speed: Approx. 1 sec.  
Sample size: 4 to 5 drops of liquid  
Sample well: Stainless steel ring over glass prism  
Housing: ABS plastic, IP65 ingress protection rating against water and dust  
Power supply: 1 x 1.5V AAA battery  
Dimensions: Approx. 121 x 58 x 25 mm / 4.76 x 2.28 x 0.98"  
Weight: Approx. 90 g / 0.2 lb (without battery)

#### Features

- fast and precise results
- large LCD (reading and temperature)
- waterproof ABS housing IP 65
- automatic temperature compensation
- small amount of sample
- simple calibration with distilled water
- stainless steel sample tray with glass prism
- easy operation with three buttons
- battery control system
- automatic shutdown after 1 min. of no-operation

#### Application

The LB-DR-605 AdBlue refractometer from LABART is used in the automotive industry, is ideal for reliable immediate analysis, is a versatile and easy to use device. When stored over longer periods of time, the diesel additive AdBlue can gradually decompose. With the help of the digital AdBlue refractometer, the urea-water solution can be checked quickly and easily. Due to its user-friendly handling, the AdBlue test instrument is excellent for determination of the urea content in AdBlue within seconds. The AdBlue refractometer has a handy and robust design, and therefore, can be used anytime and anywhere. An easy handling and its waterproof housing make the test instrument an indispensable device for inspecting the AdBlue diesel additive which provides the user with important helpful information within seconds.



**UPGRADED!**

**Authorised Partner**

## XTECH LAB SUPPLIES

Office & Works : B7/22, Sector 17, Rohini, New Delhi - 110089, India.  
Tel.: +91-8587834375, 9560172388  
Email : xtechlabsupplies@gmail.com Website : www.xtechlabsupplies.com



**xtech**  
Tech with Science ..