



## optical refractometers

### Optical refractometers

Optical instruments that through refraction are suitable for detecting the concentration of a substance diluted in water. Reliable and simple to use, simply apply a drop of emulsion on the mirror lower the tab and look through the eyepiece to read the concentration on the graduated scale.

#### Technical features

Measuring scale 0-10% or 0-18% or 0-32% Brix or automotive specific  
Accuracy +/- 0.1% for 0-10% version and 0.2% for others  
Adjustment and zeroing screw  
Automatic temperature compensation (no for MIXI R10 version)  
Body constructed of metal, glass mirror  
Supplied with shockproof box, semi-leather case, zeroing accessories

#### Available models

Item code	Description
MIXI R10	MIXI Refractometer 0-10% Brix
MIXI R18	MIXI Refractometer 0-18% Brix
MIXI R32	MIXI Refractometer 0-32% Brix
MIXI REF412K	MIXI refractometer for checking radiator liquids and batteries

**NB: with some emulsions the percentage display is blurry and with little contrast, in which case we recommend the digital refractometer shown below**



Refractometers item code MIXI R18



Refractometer with all the accessories provided



## digital refractometers

### Digital refractometers

They measure the concentration of emulsifiable oil in water, expressed in % Brix or refractive index. They are portable, rugged and water-resistant instruments, IP65 degree of protection. Refractive index measurement is quick and easy. After easy calibration with distilled or deionized water, the instrument measures the concentration in % Brix or refractive index of the sample in seconds. This digital refractometer eliminates the uncertainty typical of optical refractometers and can be easily transported to make measurements directly where they are needed without the use of an analytical laboratory. The large color display simultaneously shows percentage and temperature, as well as battery charge indication and other useful messages.

#### Technical features

Measuring scale 0-50% Brix or refractive index 1.3330-1.4200 nD  
Resolution 0,1% Brix, precision +/- 0,2%  
Refractive index resolution 0,0001 nD precision +/- 0,0003 nD  
1.8" TFT color display  
Photodiode array readout sensor  
Calibration with distilled water  
Instantaneous value reading  
Stainless steel measuring cell  
Battery life of up to 30,000 readings  
Battery is rechargeable up to 500 times  
Automatic temperature compensation (ATC)  
Minimum liquid volume 2-4 drops  
Operation from sea level up to 2000 mt  
Operating temperature from 5 to 40°C humidity up to 80%  
Storage temperature 0 to 50°C humidity up to 80%  
IP65 degree of protection  
Automatic shutdown after 60 seconds of inactivity  
Rechargeable lithium battery via supplied MicroUSB cable (5 volts 1 amp)  
Dimensions 132 x 69 x 30 mm  
Weight 125 grams (without battery)

#### Available model

Item code	Description
HIDR-50	Portable digital refractometer 0-50% Brix concentration or refractive index 1.3330-1.4200 nD



Digital portable refractometer



Included with the digital refractometer is a sturdy carrying case as well as dropper vial and charging cable