

Whether it's in the lab, the factory or out in the field, CETI refractometers offer precision, versatility and excellent value. We have designed a spectrum of refractometers to meet the challenges that your work presents. Our product range begins with the analogue pocket models, the DIGITS, expanding to the SR-Series, then on to table top models such as the CONVEX and PRISMA and finishing with the semi-automatic table model, the QUARTZ.



DIGIT

The Digit series comprises 25 lightweight hand-held refractometers for measuring the Brix or refractive index value of specific products. Simply place a drop of liquid onto the prism, close the cover plate and point towards a light source; the refractive value is measured. Suitable for general applications to industry specific: examples include the control of sugar or alcohol

levels in food and beverages and spot testing of petrochemicals.

As the Digit is such a compact and lightweight instrument, it is ideal for quick and reliable measurements out in the field or on the factory floor.

Product references.

See below

Scale:

8100.0120 DIGIT-012/Clinical

- Refractive index 1.3330 to 1.3600
- Protein 0 to 12 g/dl
- Specific gravity 1.000 to 1.050

8100.0150 DIGIT-015/Sugar/oil

- 0-15% Brix
- Refractive index 1.3330 to 1.3560

8100.0250 DIGIT-025/Alcohol

- 0-25% Alcohol (Volume / volume)

8100.0320 DIGIT-032/Sugar

- 0-32% Brix

8100.0500 DIGIT-050/Battery

- Ethylene glycol from -50°C to 0°C
- Specific gravity 1.15 to 1.30 sg
- Battery fluid from -50°C to 0°C

8100.0800 DIGIT-080/Sugar

- 0-80% Brix

8100.0900 DIGIT-090/Sugar

- 0-42% Brix
- 42-71% Brix
- 71-90% Brix

8100.2862 DIGIT-2862/Sugar

- 28-62% Brix

Precision

0.0005
0.2 g/dl
0.002 sg

0.2% Brix
0.0005 nD

0.2%

0.2% Brix

5°C
0.01sg
5°C

0.5% Brix

0.2% Brix
0.2% Brix
0.2% Brix

0.2% Brix

Scale:

8100.5890 DIGIT-5890/Honey

- 58-90% Brix
- 12-27% Water
- 38-43% Baumé

8100.3014

DIGIT-30~140/Oechsle scale 30-140

- 0-32% Brix
- 30-140 Oechsle

8145.0001 DIGIT-010 ATC/Sugar

- 0-10% Brix

8145.0250 DIGIT-025 ATC/Alcohol

- 0-25% Alcohol/Volume

8145.0320 DIGIT-032 ATC/Sugar

- 0-32% Brix

8145.5890 DIGIT-5890 ATC/Honey

- 58-90% Brix
- 12-27% Water
- 38-43% Baumé

8145.0100 DIGIT-100 ATC/Salinity

- 0-100‰ Salinity
- Gravity 1.000 to 1.070 sg

Precision

0.5% Brix
1% Water
0.5% Baumé

0.20%
0.10%

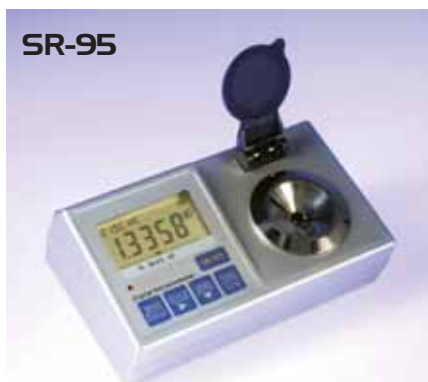
0.1% Brix

0.2% Brix

0.2% Brix

0,5% Brix
1% Water
0.5% Baumé

1‰ Salinity
0.001 sg



SR-95

The SR-95 digital refractometer has a triple range of Brix, Refractive Index and Salinity coupled with the convenience of an RS232 interface. Other additions include automatic temperature

compensation, Centigrade and Fahrenheit measurements, a stainless steel sample plate and instantaneous digital results.

Product reference. 8950.0000

| Type | Range | Resolution | Accuracy |
|------------------|---------------|------------|-------------|
| Brix | 0-95% | 0.1% | +/- 0.1% |
| Refractive Index | 1.3330-1.5318 | 0.0001 | +/- 0.00015 |
| Salinity | 0-30% | 0.1% | +/- 0.1% |

Refractometers

CONVEX



The Convex is highly versatile, allowing measurements of a wide range of substances to be taken. Both upper and lower prisms have their own light entry ports, which can be closed, thereby making it possible to take readings from both reflected and transmitted light. The Convex can also test solids, powders, pastes & plastic films.

For measuring substances that require a stabilised temperature the upper & lower prisms of the Convex can be connected to a water bath.

Supplied with digital thermometer.

Product reference. 8200.0000

Specifications include:

Scale:

- Refractive index 1.3000 to 1.7200
- Sugar 0-95% Brix

Precision

- 0.0005nD
- 0.25% Brix

PRISMA



The Prisma is designed for the finest precision, to ensure the integrity of all research undertaken.

This Abbe refractometer is equipped with an integral LED illuminator for its external scale unit, allowing readings to be easily taken whilst taking notes. An easy-to-manipulate regulation knob controls the separation line by simply positioning it against the crossed lines viewed through the eyepieces. A user-

friendly colour compensation knob eliminates any colour shift. In addition to transparent solutions, the PRISMA is equipped to measure the RI of solids, powders, pastes and plastic films. Both the upper and lower prisms are of the highest quality and include connecting nozzles for a thermostatic water bath.

Supplied with digital thermometer.

Product reference. 8300.0000

Specifications include:

Scale:

- Refractive index 1.3000 to 1.7200
- Sugar 0-95% Brix

Precision

- 0.0005nD
- 0.25% Brix

QUARTZ



The Quartz is a semi-automated Abbe refractometer. Its fast, digital read-out offers a speedier throughput, which is particularly useful in manufacturing centres and on production lines. Presentation of a sample produces an almost instantaneous, accurate read-out of the RI, %Brix value and %Brix temperature on the LCD display.

An RS232 PC/Printer interface is supplied as standard making manual note taking obsolete.

Product reference. 8400.0000

Specifications include:

Scale:

- Refractive index 1.3000 to 1.7200
- Brix 0-90% Brix
- Brix (Temp. comp.) 0-90% Brix
- Temperature range 15°C-50°C

Precision

- 0.00025nD
- 0.10% Brix
- 0.10% Brix
- 0.2°C

Readability

- 0.0001nD
- 0.10% Brix
- 0.10% Brix
- 0.2°C