BROCHURE

# Refractometer S Economy, Industrial, & Lighted

Version 1.0



# **OVERVIEW**

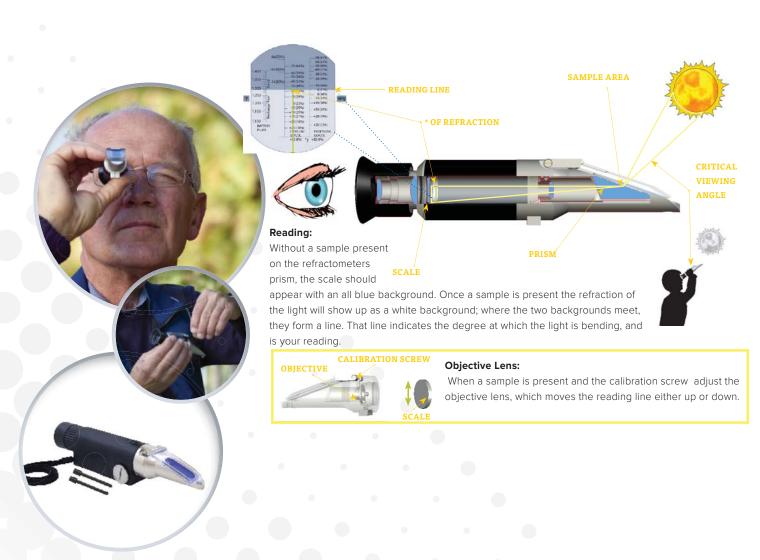
#### Concept:

A refractometer measures the degree of the bend of light as it passes through a sample. This degree of bend (refraction) can be measured on a multitude of different types of scales. Common scales include: Brix, Baune, Specific Gravity, Refractive Index, & Salinity.

Each type of scale converts the degree of rafraction, to something more useful to each industry's application it is used in. For example : The automotive industry uses an RHA series refractometer to measure the percentage of water to glycol to ensure proper mixing of coolant.

#### **Critical Viewing Angle:**

The angle at which light enters into the refractometer is very important to crispness of the line being formed. If to much light is reflected off from the surface of the prism, the line formed may be very fuzzy.





### **OVERVIEW**

### AUTOMOTIVE

FOR ANTIFREEZE & BATTERY ACID

Ensure the proper dilution of antifreeze or check the charge level of battery acid. The antifreeze scales measure ethylene & propylene glycol in both freeze point degrees and the ratio of water to glycol.



#### SALINITY

FOR AQUACULTURE, FOOD PROCESSING & WILDLIFE MANAGEMENT

Measure salt levels in water and other saline fluids. The dual scale gives a direct reading of specific gravity and concentration (parts per thousand).



CLINICAL/VETERINARY FOR SERUM PROTEIN, SPECIFIC GRAVITY AND REFRACTIVE INDEX

Quickly and accurately get indication of basic health parameters such as dehydration and blood protein levels. This three-scale model measures total serum protein, urine specific gravity, and refractive index.





FOR WINE, BEVERAGES, FOODS & INDUSTRIAL FLUIDS

Measure sugar concentration levels for various beverages and foods, or in industrial fluids, such as cutting coolants, glycol solutions, and flux rinsing compounds. The scale gives a direct Brix reading.

# **RL Lighted Series**

### Illuminating Results for All Applications

### **KEY BENEFITS**

- Consistent, easy-to-use LED illumination
- Sharp, high-contrast scale
- Rugged, rubberized housing protects against moisture and other damage
- Daylight plate stays in open position for convenient sample preparation
- Rubber eyecup and grip for easy focusing and comfortable viewing
- Includes carrying case, calibration screw driver, batteries, calibration solution, and 2 droppers
- Automatic temperature compensation adjusts for ambient temperature fluctuations within normal range of 50  $^{\circ}$  to 86  $^{\circ}$  F (10 to 30 C) to maintain calibration

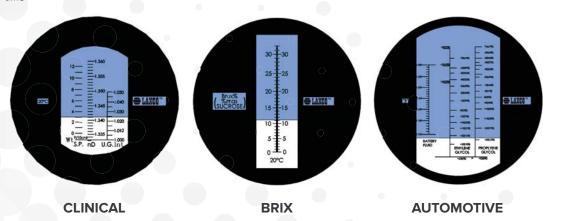
**Focusing Eyepiece** 

#### AUTOMATIC TEMPERATURE COMPENSATION (ATC)

All models come standard with ATC functionality, which prevents the need for constant re-calibration. As the ambient temperature changes, the scale will automatically compensate for the difference in the degree of the refraction of light. This ensure an accurate reading every time



### **DEVELOPED IN THE U.S., BY U.S. ENGINEERS**



SALINITY 



### **OVERVIEW**



### LED ILLUMINATION

Laxco RL Light Series refractometers incorporate an LED lamp between the daylight plate and prism to prevent the need of ambient light to obtain a reading. Works well in low light situations where there is not a lot of ambient light.

### HINGED DAYLIGHT PLATE

Two ball plungers on each side of the daylight plate locks the daylight in the up or down position to prevent flapping during operation or while applying sample to prism.

## **BUILT TO LAST**

### **CALIBRATION SCREW**

Calibration set screw is sealed with water proof cap to prevent water from entering into the system.

### BATTERY

Easy to remove, water tight, sealed battery compartment.





### OPTICS

All glass optics, with large field of view creates a bright, sharp, crisp line for easy reading of sample measurement.

DURABLE, ALL METAL CONSTRUCTION

# MODELS

### **Specifications & Ordering Information**

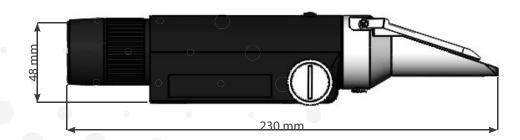
BRIX M	BRIX MODELS					
	Model	Application	Scale Range	Division	Accuracy	
	RLB-10ATC	BRIX for Wine, Beverages, Foods & Industrial Fluids	0 - 10 ° Brix	0.1 °	± 0.1 °	
	RLB-32ATC	BRIX for Wine, Beverages, Foods & Industrial Fluids	0 - 32 ° Brix	0.2 °	± 0.2 °	
CLINIC	AL MOI	DELS				
	RLC-200ATC	CLINICAL for Serum Protein, Specific Gravity & Refractive Index	Serum Protein 0 to 12 g/100mil Specific Gravity 1.000 to 1.050 Refractive Index 1.330 to 1.360 nD	.2 .0001 .0005	±.2 ±.0001 ±.005	
SALINI		DELS				
	RLS-10ATC	SALINITY for Aquaculture, Food Processing and Wildlife Management	Salinity 0 - 100 ppt Specific Gravity 1.000 to 1.070	1 ppt .0001	± 1 ppt ± .0001	
AUTON	ΛΟΤΙVΕ	MODELS				
	RLA-200ATC	AUTOMOTIVE for coolant and battery fluid testing	Ethylene -84 ° to 32 ° F (0% to 67%) Propylene -76 ° to 32 ° F (0% to 70%) Battery Fluid 1.100 to 1.400	5 ° 5 ° 0.01	±5° ±5° ±0.01	

# ACCESSORIES

PARTS	
Part #	Description
RP-DPA-5	Daylight plate assembly

# DIMENSIONS









LMC Compound Microscopes Series

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