

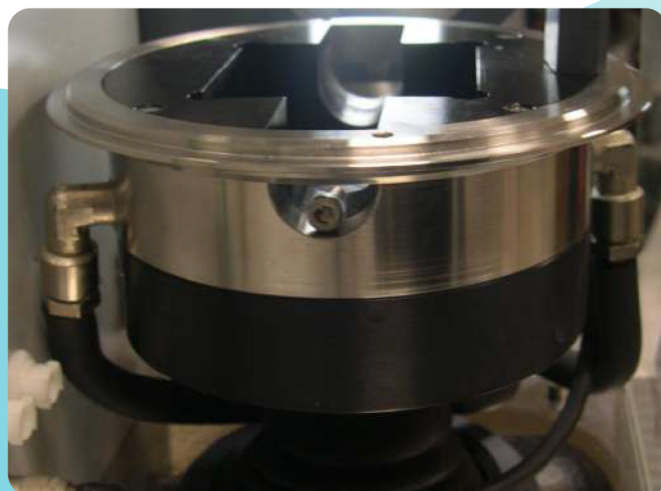
SPECIFICATIONS OF THE STANDARD INSTRUMENT

Motorisation		Mini	Maxi
	Speed (um/s)	0.1	10000
Sensor			
	Maximum load (g)	200	
	Display resolution Range (g)	0.01	0.1
	Manual calibration	200 mg	100.000 g
	GBX easy attachment system	Inc.	
Measurements			
	Range mN/m	0.5	1000
	Accuracy mN/m in 0.1 mode	+/- 0.1	
	Resolution mN/m	0.01	0.01
Density			
	Range (g/cm ³)	0	3
	Density resolution (g/cm ³)	0.0001	0.0001
Temperature			
	Sensor type	PT100	
	Accuracy C	0.1	
Temp Ctrl	Temperature regulation by cryogenic bath or electronic control is available	-10°C	+100°C



TAKE CONTROL OF YOUR Tensiometer

- ✓ EASY
- ✓ FULLY AUTOMATIC
- ✓ WITHOUT HARDWARE ADJUSTMENT
- ✓ REPRODUCIBLE
- ✓ ADAPTIVE TO NEW ASTM or ISO
- ✓ EASY CONFIGURATION OF YOUR OWN ROUTINE



A WORLD OF IMAGINATION AND PERFORMANCE
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*Where smart ideas create
smart instruments*





In standard the instrument is supplied with:

- a control box featuring a display of all parameters and
- the measurement of Interfacial tension
- Illuminated area
- 7inch touch screen display
- 1 off Du-Nouy Ring
- Possible to use a PC to control the instrument without the need to get a cable between PC and instrument

The software is fully customizable, allowing you to create your own measurement steps if the default wizard does not meet your requirements or if any ASTM or ISO procedures need to be modified in the future. This will ensure our user to be updated.

Loop of interfacial measurements is available as standard procedure to repeat the measurements



Introduction

Due to the paramount significance of obtaining precise measurement results in this particular type of analysis, GBX Scientific has successfully resolved a significant challenge related to achieving accurate interfacial tension measurements.

Explanation: When a liquid is introduced onto another liquid, molecular constituents from one liquid have a tendency to migrate to the other liquid, and vice versa. This phenomenon leads to an evolution of the interfacial tension over time. Consequently, it is imperative for the operator to discern the optimal values and understand the underlying reasons for their validity.

GBX Instrumental Solution

Some of the primary benefits of the instruments include:

Automatic measurement regardless of the liquid level in the beaker
Manual sensor calibration with edition of an automatic report calibration

Optional automatic sensor calibration at any predefined value, determined by the operator, to ensure optimal accuracy.

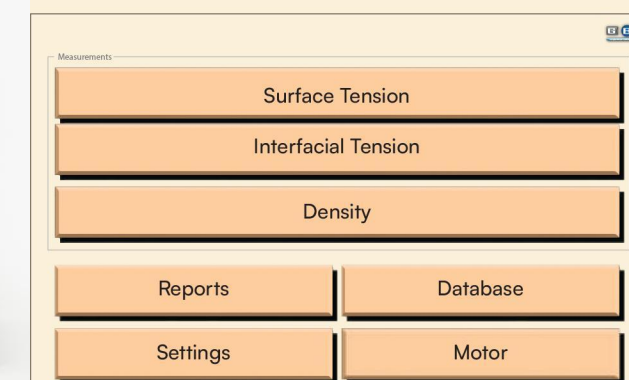
Extremely low speed, operating at a few micrometers from extraction, ensuring precise accuracy.

Accurate displacement of the beaker without any vibrations, ensuring reliable measurements.

Elimination of the need for manual mechanical preadjustment, simplifying the instrument setup process.

Fully ASTM D 971-12 & ASTM D1331 Compliant

Theories Harkins-Jordan & Zuidema-Waters included



A touchscreen and joystick allow for controlling the instrument without the need for a PC
Our optional density kit is very easy to clean and perfectly calibrated
It is supplied with a certificate of calibration for a better traceability of the measurements.

The material has limited capability of being scratched easily to avoid false results as this might happen with other material for density
Our optional dispenser helps in dispensing the oil on water without the risk of breaking the interface

Stirrer is available in Option once mixture of liquids is required
An optional external printer can be connected to the control box in order to print the values of date and time, temperature, and interfacial tension at the end of the measurement for tracability.

