



FAVS

Scientific Equipment

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HMB - Polarimeters

▶ 404 and 404-LED models

Zuzi

CODE - HMB001



- 1| Inclined sample compartment that can accommodate tubes up to 220 mm
- 2| Double reading scale by means of Vernier to avoid differences due to eccentricity.
- 3| Eyepiece with diopter adjustment.
- 4| Two lateral magnifying glasses of 4 magnifications to facilitate the reading of the scale.
- 5| Supplied with two tubes for samples of 100 and 200 mm respectively.

Code	HMB001	HMB002
Model	404	404-LED
Illumination	Sodium vapour lamp	LED + filter
Wavelength length	589,4 nm	589,4 nm
Number of scales	2	
Measurement range	Two quadrants (0-180°)	
Scale division	1°	
Legibility (Vernier)	0,05°	

CODE - HMB002





▶ HMB - Polarimeters

▶ Model 412



- 1 | Photoelectric detection, RS 232 output.
- 2 | Repeats the measurement 3 times and calculates the average value.
- 3 | High sensitivity, used with samples of low optical rotation that are difficult to analyze in the optical polarimeter.
- 4 | Supplied with two tubes for 100 and 200 mm samples.
- 5 | Measurement of optical rotation.

Code	HMB003
Model	412
Range	From +45° to -45°
Accuracy	±(0,001+ measured value ×0,05%)
Minimum transmittance of the sample	10%
Illumination	LED + filter (589,4nm)
Speed	1,3°/s

▶ Model 418



- 1 | Advanced digital circuit and microprocessor control, RS 232 output
- 2 | Repeats the measurement 3 times and calculates the average value.
- 3 | Performs readings on dark samples with a transmittance close to 1%
- 4 | Supplied together with two sample tubes of 100 and 200mm
- 5 | Optical rotation and sugar degree measurement

Code	HMB004
Model	418
Range	From +45° to -45°/ From +130°Z to -130°Z
Accuracy	±0,001°
Minimum transmittance of the sample	1%
Illumination	LED + filter (589,4nm)
Speed	1°/s

▶ Model 430



- 1 | Photoelectric detection and microprocessor control. RS232 output.
- 2 | Measurement of specific rotation, optical rotation, sugar level and concentration
- 3 | Repeat the measurement 6 times and calculate the main value and RMS value.
- 4 | Supplied with two sample tubes of 100 and 200mm.

Code	HMB005
Model	430
Range	From +45° to -45° / From +130°Z to -130°Z
Accuracy	±0,01° + (measured value ×0,05%)/n10000 ±0,03°Z + (measured value ×0,05%)/n10000
Min transmittance of the sample	10%
Illumination	Sodium lamp + filter (589,4nm)
Speed	1°/s



HMF - Calibration pieces



- 1| To check the accuracy of the polarimeter measurements.
- 2| Quartz piece with metal mount. Supplied in a case.

Code	Description
HMF001	Quartz piece for calibration of polarimeter +5°
HMF002	Quartz piece for calibration of polarimeter -5°
HMF003	Quartz piece for calibration of polarimeter +17°
HMF004	Quartz piece for calibration of polarimeter -17°
HMF005	Quartz piece for calibration of polarimeter +35°
HMF006	Quartz piece for calibration of polarimeter -35°



HMG - Accessories



Code	Description
HMG001	Sodium vapor lamp 589,3 nm
HMG002	Rubber joint for polarimeter
HMG003	Test tube with stopper for polarimeter
HMG004	Test tube circular glass disk 15 mm
HMG005	Test tube for polarimeter 100 mm
HMG006	Test tube for polarimeter 200 mm
HMG007	Polarimeter kit. Composed of: <ul style="list-style-type: none"> - HMG002, Rubber joint for Test Tubes - HMG003, Test Tube Stopper - HMG004, Test tube circular glass disk 15 mm
HMG008	Glass for polarimeter lamp protector model 404

CODE - HMG005



CODE - HMG006