



S SOFTWARE





Polartronic N/M Touch

Polarimeter



SPECIFICATIONS	POLARTRONIC N TOUCH	POLARTRONIC M TOUCH
Measurement scales	°Optical rotation, °Specific rotation, °Z International Sugar Scale, % Concentration (g/mL, g/100mL, g/L) Up to 1000 scales freely definable	
Measuring range	± 360° / ± 259°Z	
Resolution	0.01° / 0,05°Z	0.001° / 0,01°Z
Precision	± 0.01° / ± 0,05°Z *	± 0.005° / ± 0,015°Z *
Reproducibility	± 0.01° / ± 0,05°Z	± 0.005° / ± 0,015°Z
Sensitivity	Up to OD 3	Up to OD 5
N avelength	1 or 2 wavelengths fixed: 405, 435, 546, 578, 589, 633, 882 nm (others upon request)	
Response time	≤ 4 sec. over the entire measuring range	
Measuring tubes	Different Models, 10 to 200 mm length Material: glass, stainless steel, acid-proof stainless steel, stainless steel tubes with integrated temperature sensor***	
Temperature measurement	NTC sensor for measurement of sample temperature	
Range	0 - 99°C	
Resolution	0.01°C	
Precision	± 0.03°C	
Light source	LED, interference filter	
Display	7" Touchscreen, 800 x 480 Pixel, 16 Bit colors	
Operation	Touchscreen, keyboard**, mouse**, barcode-reader**, remote via PC**	
nterface / Communication	RS232 (1x), USB A (4x), USB B (1x), Ethernet (1x), W-LAN/LAN**	
Standard models	Polartronic N 100 TOUCH: 589 nm Polartronic N 101 TOUCH: 882 nm Polartronic N 202 TOUCH: 589 and 882 nm	Polartronic M 100 TOUCH: 589 nm Polartronic M 101 TOUCH: 882 nm Polartronic M 202 TOUCH: 589 and 882 nm
Conformity	International Pharmacopoea, OIML, ASTM, ICUMSA, Australian Standard K157	
Highlights	High performance circle polarimeter for common applications; High resolution 7" TFT touchscreen; Documentation GLP/GMP conform; 21 CFRpart 11 ready; Energy saving LED light source	
Weight / dimensions	18.3 kg; 730 x 370 x 160 mm (width x depth x height)	

Polarimeter applications

Polarimetry is an instrumental analytical method using the optical activity by inorganic and organic compounds as a non-destructive measure of their concentration in a solution.

Applications often used

- Determination of concentration
- Purity analysis
- Quality control
- Scientific analysis

Typical applications of the models

- Raw-, intermediate and final products of sugar cane and beet processing
- Food (sugar, starch, milk and dairy products)
- Pharmaceuticals (alkaloids, amino acids, organic compounds, vitamins, essential oils etc.)
- Chemicals (organic fluids, biopolymers, synthetic and organic polymers, benzene, acids etc.)
- Research (analysis of molecular structure, investigation of kinetic reactions as function of time, distinction of optical isomers, monitoring changes in concentration of an optically active component in a reaction mixture as in enzymatic scission)



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* Standard conditions ** Optional

*** Certificate on request