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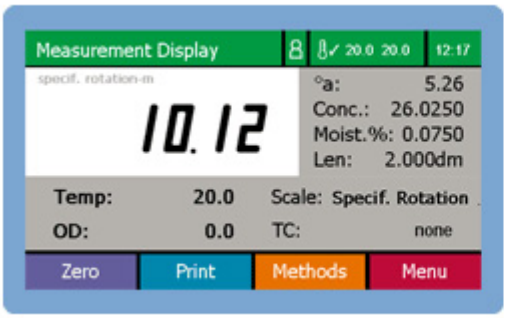
ADP430 - Automatický digitální polarimetr

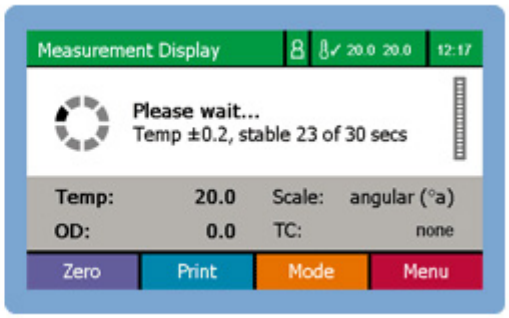
Order code: **0507.3730**

Cena bez DPH	9.950,00 Eur
Price with VAT	12.039,50 Eur

Parameters

Range - Angular (°A)	-355 ... +355
Range - ISS (°Z)	-225 ... +225
Division - Angular (°A)	0,01
Division - ISS (°Z)	0,03
Quantitative unit	ks





Single wavelength polarimeters with low maintenance LED light source.

The ADP400 Series are general-purpose single wavelength polarimeters suitable for sugar, food, chemical and pharmaceutical industries. The ADP400 polarimeters are available with or without XPC – Xylem's patented internal Peltier temperature control system. Both models use standard ICUMSA polarimeter tubes with a maximum length of 200mm. For fast performance in the Peltier controlled version, stainless steel tubes should be used. Low volume samples are also catered for with the addition of stainless steel, leur taper tubes.
Measurement Display Specific Rotation with moisture% METHOD button

These polarimeters contain proven optics, pioneered by Bellingham + Stanley, featuring "no maintenance" yellow LED and interference filter. Combined with a photodiode detector these technologies allow for the reading of samples of up to 3.0 OD at the commonly used sodium (589nm) wavelength.

Both instruments feature angular and sugar scales (ISS) and can be programmed with user scales as well as industry standard methods for displaying invert sugar, inversion (A-B) or when applying other factors such as tube length and concentration, Specific Rotation (or concentration when entering specific rotation). This flexibility makes them ideal for use within laboratories where compliance with Pharmacopoeia is required.

Three decimal place precision makes for reliable results

ADP400 Series polarimeters have a resolution of 0.001 angular degrees (°A) and are capable of reading to an accuracy of ±0.010 °A. When working under laboratory controlled conditions, ADP400 polarimeters also offer excellent reproducibility of up to 0.002 °A.

Additionally an easy-to-use Methods system gives convenient access to popular measurement types including continual measurement of Optical Rotation, Specific Rotation, Concentration, Inversion, or our new "single-shot" measurement which gives a snapshot result at any given time.

Continuous or discrete "single-shot" reading with SMART temperature stability

You can take readings with the ADP400 Series polarimeter in either continuous measurement or our new 'single-shot' mode. In continuous mode a reading is taken over a set period of time and a stabilised result displayed at the end of the period. It is excellent for monitoring instrument and sample stability, giving the user a "feel" for the reading obtained.

The ADP400 Series' new 'single-shot' mode is ideal for pharmaceutical applications where a discrete value is provided without the interpretation of the operator, satisfying operating procedures where interpretation by a third-party, the operator, is not permitted.

Accessible data on-board and via LIMS

ADP400 Series polarimeters come equipped with a new full colour 4" high definition display meaning results are clearly visible to the operator. The expanded memory ensures that over 8000 measurements and recorded logs of instrument configuration can be saved and viewed or output to LIMS or Secure PDF.

Calibration and configuration of the instruments can be password protected, accessible by keypad entry or, for convenience, using a fully configurable RFID tag. This, together with the audit trail, facilitates operation in environments conforming to FDA regulation 21 CFR Part 11 or GLP.

The ADP400 Series polarimeters incorporate a number of industry standard interfaces making it easy to connect to peripheral devices including barcode readers, printers and USB memory sticks for external storage. With the addition of a USB memory stick operators can output results to a secure PDF using the "Print to Secure PDF" feature that is now commonplace amongst many Bellingham + Stanley laboratory instruments. The USB port can also be used to accept RS232 via an available adaptor.

ADP430 digital polarimeter for use with waterbaths, ATC or where no temperature control is required

For those looking for a fully featured polarimeter without the need for internal temperature control, the ADP430 polarimeter comes complete with all the features of the ADP450 minus our new XPC Technology.

Designed as a replacement for the popular ADP410 and 440(+), the ADP430 is ideal for users who prefer or already have waterbaths for temperature control or where temperature compensation or stability is not required.

General Specifications	
Scales	
Angular Degrees (°A)	-355 to +355
International Sugar Scale (°Z)	-225 to +225
User Scales/Methods	100
Resolution	
Angular Degrees (°A) International Sugar Scale (°Z)	0.01/0.001 (selectable)
Accuracy	
Angular Degrees (°A)	± 0.010
International Sugar Scale (°Z)	± 0.030
Precision (Reproducibility)*	
Angular Degrees (°A)	± 0.002
International Sugar Scale (°Z)	± 0.005
User Scales & Methods Library	PHR-MEAN statistical, Specific Rotation, Concentration, Inversion (A-B), Invert Sugar, User Defined.
Reading Time	Continuous measurement and display or single shot (selectable)
Tube Length	10 to 200mm
Sample Illumination	Sodium (589nm) Light Emitting Diode (100,000+ hours)
Beam Diameter	4mm
Optical Density	0.0 to 3.0 OD
Instrument Housing	Polyurethane foam with aluminium base
Interfaces	1 x USB (A), 1 x USB (B), 1 x Ethernet
Power	Instrument: 24 V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)
Humidity Range	<90% RH (non condensing)

Temperature	ADP430
Control	None or external waterbath
Compensation	None, ICUMSA, Quartz or User Defined
Measuring Range	5-40 °C
Sensor Accuracy	± 0.1 °C
Stability	Waterbath dependent
Stability Checks	None/delay on single-shot