

ADS480 NIR Saccharimeter

- Raw Cane Juice
- Raw Beet Juice
- Processed Sugar
- Molasses
- Purity Functions



Autamate Purity Systems - Bellingham + Stanley

Purity: **101.43** Time: 08:38 02/03/07
Batch:

Refractometer
Brix: 24.93 Temperature: 22.7°C

Polarimeter
% (I.S.S.): 97.55 Temperature: 22.4°C

Reading Status: **Ok** Optical Density: 0.2

Buttons: **Read** (green), **Print** (blue), **Setup** (red), **Quit** (red)

Previous Results

Time	Batch	Purity	Brix	Ref. Temp	% (I.S.S.)	Pol. Temp	Rdg Status	Optical D...
08:38 02/03/07	101.42	24.93	22.7	97.55	22.4	Ok	0.2	
08:37 02/03/07	101.42	24.93	22.7	97.55	22.4	Ok	0.2	
08:37 02/03/07	101.45	24.93	22.7	97.55	22.4	Ok	0.2	
08:37 02/03/07	TEST	101.44	24.93	22.7	97.55	22.4	Ok	0.2
08:34 02/03/07		0.00	0.00	0.00	0.00	0.0	0.0	
16:33 26/02/07		0.00	0.00	0.00	0.00	0.0	0.0	



**Bellingham
+ Stanley**

ADS480 NIR Saccharimeter

Characteristics:

- International Sugar Scale (ISS)
- Temperature measurement
- OD indication
- Temperature compensation
- Low maintenance LED light source
- RS232 interface
- Simple operation
- Simple ZERO
- Small footprint

Optional Extras:

- Printers
- Printers with date/time
- Interface Cables
- Standard polarimeter tubes
- Funnel flow tubes
- Low volume tubes
- Waterbaths
- Quartz Control Plates
- Refractometers
- LCD display – touch sensitive
- PC for PURITY system

Nett Weight: 9.0kg

Dimensions: 620 (width) x 340 (depth) x 150 (height) mm

Voltage: 90-250v; 50/60Hz.

The ADS480 Saccharimeter is a Near Infra Red (NIR) automatic polarimeter designed specifically for use in industrial laboratories and Tare Houses in the Cane, Beet & Ethanol Industries.

Operation is very simple by way of four graphically represented push buttons and therefore requires no on-screen language interpretation.

Unlike other Saccharimeters, the ADS480 uses an LED light source that requires no maintenance and results are continually measured and displayed in the ISS scale (°Z) to an accuracy of ± 0.06 °Z at NIR frequencies.

A single sensor provides the measurement for sugar or quartz temperature compensation and the instrument can be verified and if necessary, calibrated using a quartz control plate by accessing the span facility in the setup menu. In order to provide rapid results and negate the need to clean sample tubes after each reading, funnel flowcells may be used. A choice of standard, 100mm & 200mm flow versions are therefore available.

The ADS480 has a single RS232 port that may be connected to a printer or a PC for remote operation as part of a PURITY SYSTEM. PC Software for PURITY calculation is provided free of charge and the use of the optional touch sensitive LCD PC VDU makes for excellent robustness in the Tare House.

Specifications	
Range	-225 to +225 °Z
Resolution	0.01 °Z
Reproducibility	0.03 °Z
Precision	± 0.06 °Z
Light Source	LED/Interference Filter NIR
Beam Diameter	4 mm
Maximum Tube Length	200 mm
Measurement Time	20 seconds
Temperature	5-40 °C
Temperature Compensation	None, sugar, quartz
Optical Density	0.0 to 3.0 OD
Interface	1 x RS232 (printer or PC or csv)
Power Supply	90-250v; 50/60Hz.

Order Code	Description
37-80	Standard package, including: ADS480 Saccharimeter, 200mm centre filling glass sample tube, standard lid, instruction manual, CD ROM and certificate of conformity.
37-81	Flow Package Type F3, including: ADS480 Saccharimeter, 100mm water jacketed funnel flow tube, slotted lid, instruction manual, CD ROM and certificate of conformity.
37-82	Flow Package Type F4, including: ADS480 Saccharimeter, 200mm water jacketed funnel flow tube, slotted lid, instruction manual, CD ROM and certificate of conformity.
55-31	Touch sensitive LCD VDU for purity system

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