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YSI 2700 SELECT Biochemistry Analyzer

YSI 2700 SELECT™ Biochemistry Analyzer

Biochemistry analyzer for bioprocessing, food and beverage, and biofuels applications

The YSI 2700 SELECT Biochemistry Analyzer provides vital information about your processes. It provides rapid, accurate analysis of key nutrients and byproducts, including:

- Glucose
- Lactate
- Glutamine
- Glutamate
- Ethanol
- Lactose
- Sucrose
- Galactose
- Hydrogen peroxide
- Methanol
- Starch
- Choline
- Xylose

The YSI 2700 can be configured in single or dual analyte mode. Combine many of the analytes above. Popular combinations include glucose/lactate, glutamine/glutamate, sucrose/glucose and xylose/glucose.

Sample analysis can be carried out in two ways, [benchtop](#) or [on-line](#).

Product Specifications

Aspirated sample volume:	User selects 5 to 65 microliters
Analysis time:	60 seconds
Precision:	<2% CV, n=10
Linearity:	±5%*, calibration value to range maximum
Calibration:	User selects frequency

Size:	35.6 x 25.4 x 35.6 cm, 11.4 kg (14 x 10 x 14 inches, 25 lbs)
Working environment:	15 to 35°C ambient temperature, 10 to 90% relative humidity (noncondensing)
Power:	110-120 VAC or 220-240 VAC 50-60 Hz 50 Watts nominal
Battery backup:	Rechargeable Ni-Cad batteries to back up RAM.
Regulatory Compliance:	CE, CSA
YSI 2710 Turntable	
Sample containers:	10 to 16 mm dia, 20 to 100 mm height
Sample wheel:	19.1 dia x 1.9 cm (7.5 dia x 0.75 in)
Size:	23.5 x 20.3 x 12.7 cm, 2.5 kg (9.25 x 8 x 5 in, 5.5 lbs)
YSI 2730 Monitor & Control Accessory	
Sample inlet tubing:	Silicone, 0.08" OD x 0.02" ID; Volume: 5.1 microliters per inch
Inlet channel pump tubing:	PharMed™ 0.13" OD x 0.035" ID
Valve tubing:	0.03" ID
Wasteline tubing:	Silicone, 0.16" OD x 0.10" ID
Nominal flow rate (inlet line):	100 to 2500 microliters per minute (±8% @ ±6 PSI)
Sample interval:	2 minutes to 1,000 hours
Analog/Control	
Full Scale Voltage:	Selectable: +10.00 VDC or +5.00 VDC

Full Scale Concentration:	User selectable via software as 1, 2, 3 or 4 x Calibrant Concentration.
Resolution:	1:4096 or 0.02% FS, 2.44 mV on +10.00 VFS, 1.22 mV on +5.00 VFS
Maximum Offset:	±4 LSB
Linearity:	±1 LSB
Minimum analog output Load Impedance:	2K Ohms
Logic output drive:	0 and 5 VDC nominal at 4 mA
Logic Input levels:	< 0.8 VDC = logic 0, > 3.5 VDC = logic 1

* Xylose ±15%

Features

- Little or no sample preparation
- Aspirates 25 µL in most applications
- One-minute result displayed, printed and stored
- Mix and match up to two chemistry combinations
- Automatic calibration and automatic clearing of sample to waste
- Small footprint (about 1 square foot of bench space)
- Optional 24-position turntable or monitoring/control assembly available



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