2.3 General Specifications

Sample size:	Adjustable from 5 to 65 microliters (aspirated volume)
Response Time:	Sample results in 60 seconds, Complete sample-to-sample cycle in 90 seconds (May vary with analyte and sample matrix.)
t	
Power requirement:	110-120 VAC[3], 1A or 220-240 VAC, 0.5A 50-60 Hz 50 Watts nominal
Working environment:	
Ambient temperature:	15° to 35° Celsius
Relative humidity:	10% to 90% (non-condensing)
Instrument dimensions:	10.0 x 14.0 x 14.0 inches 25.4 x 35.6 x 35.6 centimeters
Instrument weight:	25 pounds 11.4 kilograms
Regulatory Compliance:	CSA, CE Pollution degree 2 Installation Category 2 Altitude 2000m Indoor use only

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[3] Mains supply voltage fluctuations not to exceed ±10% of nominal supply voltage.

2.4 Chemistry Performance Specifications

Dextrose (D-Glucose)

YSI Membrane:	2365
Detection Range:	0-9 g/L at 25 µL sample size, 0-25 g/L at 10 µL sample size
Calibration Point:	2.50 g/L
Linearity Check Point:	9.0 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	21 days
Membrane O-ring Color:	Red

Ethanol

YSI Membrane:	2786
Detection Range:	0-3.2 g/L
Calibration Point:	2.00 g/L
Linearity Check Point:	3.20 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	5 days
Membrane O-ring Color:	Green
Potential Substrate Interference:	Methanol

L-Glutamate*

YSI Membrane:	2754
Detection Range:	0-10 mmol/L
Calibration Point:	5.00 mmol/L
Linearity Check Point:	10.0 mmol/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	7 days
Membrane O-ring Color:	Yellow

*User may configure instrument to measure as monosodium glutamate (MSG).

L-Lactate (L-Lactic Acid)

YSI Membrane:	2329
Detection Range:	0-2.67 g/L
Calibration Point:	0.50 g/L
Linearity Check Point:	2.67 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	14 days
Membrane O-ring Color:	Gray

Lactose

YSI Membrane:	2702
Detection Range:	0-25 g/L
Calibration Point:	5.00 g/L
Linearity Check Point:	25.0 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	10 days
Membrane O-ring Color:	White

Sucrose

YSI Membrane:	2703
Detection Range:	0-25 g/L
Calibration Point:	5.00 g/L
Linearity Check Point:	25.0 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	10 days
Membrane O-ring color:	Blue

Choline

YSI Membrane:	2771
Detection Range:	0-450 mg/L
Calibration Point:	175 mg/L
Linearity Check Point:	450 mg/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	7 days
Membrane O-ring color:	Orange

L-Glutamine*

YSI Membrane:	2735
Detection Range:	0-8 mmol/L
Calibration Point:	5.00 mmol/L
Linearity Check Point:	8.00 mmol/L
Precision (CV,n=5):	4%
Linearity (0 to Cal Point):	±4%
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	5 days
Membrane O-ring color:	Magenta

*Specs shown are for simultaneous measurement of glutamine and glutamate.

Methanol

YSI Membrane:	2725
Detection Range:	0-2.50 g/L
Calibration Point:	1.00 g/L
Linearity Check Point:	2.50 g/L
Precision (CV,n=10):	2%
Linearity (0 to Cal Point):	±2% or 0.02 g/L, whichever is greater
Linearity (Cal to Range Max):	±5%
Typical Membrane Working Life:	5 days
Membrane O-ring color:	Black
Potential Substrate Interference:	Ethanol

NOTE: For the following chemistries YSI believes that you will be able to measure these analytes for many applications in the ranges specified below. However, YSI makes no claims with respect to precision or linearity. For each analyte below you will need to prepare the calibrator and linearity standards for your application.

YSI also recommends that you confirm that no significant levels of interfering substrates are present in your samples. For example, we know that lactose and galactose in the same sample may interfere if significant concentrations of both exist. Also dextrose will read at a sucrose membrane, however, by using the dual channel approach to dextrose and sucrose, this is automatically accounted for by the software.

Galactose

Membrane:	2702
Detection Range:	0-25 g/L
Typical Membrane Working Life:	10 days
Membrane O-ring Color:	White
User Must Provide:	Calibrator solution
Potential Substrate Interference:	Lactose

Hydrogen Peroxide

Membrane:	2701
Detection Range:	0-600 mg/L
Typical Membrane Working Life:	21 days
Membrane O-ring Color:	Yellow
User Must Provide:	Calibrator solution
	Catalase-free Supply Buffer