

FUTURA

STANDARD FUTURA

BIOTECH RANGE



Lightweight housing suitable for most bioreactors and is ideal for 25mm diameter side mounted probes and 12mm probes on vessels where the centreline of the probe is greater than 15mm from the centreline of the vessel. (Supplied with a 2 metre cable).

Description	Part Number
STANDARD FUTURA	2330-00

Technical Specifications

Frequency Range:	50KHz to 20MHz
Measuring Ranges:	Capacitance: 0.0 to 400pF/cm Conductivity: 1.0 to 40 mS/cm +/-0.1 mS/cm (Higher ranges available with compatible probes)
Cell Concentration Range:	Depends on cell sizes but typically: Yeast (6 µm): 10 ⁶ cells/ml to 10 ¹⁰ Cells/ml Bacteria (1 µm): 10 ⁹ cells/ml to 10 ¹³ Cells/ml Animal Cell (12 µm): 10 ⁵ cells/ml to 10 ⁹ Cells/ml Plant Cell (50 µm): 10 ³ cells/ml to 10 ⁷ Cells/ml
Resolution:	Resolution: 0.1 pF/cm. Bacteria typically 0.1 g/L dry weight or 2x10 ⁹ Cells/ml for <i>E. Coli</i> . Yeast or Animal Cells 0.05g/L or 1 x10 ⁵ Cells/ml The relationship of these capacitance values to biomass levels depends upon the cell type and cell line.
Accuracy:	Typically better than ± 3% or ± 2% of the reading
Stability:	Better than ± 0.2 pF/cm at constant temperature with standard conductivity solution of ~12 mS/cm
Linearity:	Better than ± 1% over 100 pF/cm
Precision:	Typically <±0.5 pF/cm, no filter active.
Power Supply:	24V DC power is typically supplied by an Aber Hub running on 110V AC to 240V AC mains.
Environmental:	IP65 rated ; Recommended ambient operating temperature range: 5°C to 40°C
Weight:	375g

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Dimensional Measurements

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