

COMPACT YEAST MONITOR

YEAST MONITOR RANGE



The Compact Yeast Monitor measures the concentration of live yeast on-line. The Compact Yeast Monitor is designed to be fitted on to standard instrument housings such as the Tuchenhagen varivent. This robust instrument is completely contained within an IP65 stainless steel housing.

| Description | Part Number |
|-----------------------|-------------|
| Compact Yeast Monitor | 4110-00 |

Technical Specifications

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|---------------------------|--|
| Measuring Frequency: | 312KHz |
| Measuring Ranges: | 0 to 400 pF/cm 0 to 100% Viable Yeast Spun Solids 0 to 5×10^9 Cells/ml Conductivity range of 0.75 to 10 mS/cm |
| Cell Concentration Range: | Depends on cell sizes but typically: Yeast (6 μ m): 10^6 cells/ml to 10^{10} Cells/ml |
| Resolution: | Resolution: 0.1 pF/cm Approx: Yeast or Animal Cells 0.05g/L or 1×10^5 Cells/ml The relationship of these capacitance values to biomass levels depends upon the cell type and line. |
| Accuracy: | Typically better than $\pm 3\%$ or $\pm 2\%$ of the reading |
| Stability: | Better than ± 0.2 pF/cm at constant temperature with standard conductivity solution of ~ 1.4 mS/cm |
| Linearity: | Better than $\pm 1\%$ over 100 pF/cm |
| Precision: | Typically $\leq \pm 0.5$ pF/cm, no filter active. |
| Power Supply: | Natively 24V DC. This is supplied by the YM V350 |
| Environmental: | MAXIMUM OPERATING PRESSURE FOR COMPACT UNIT: 10 BAR ; IP65 rated; Safe ambient operating temperature range: 5°C to 40°C |

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Dimensional Measurements

