

# Incyte Unit DN12 - 120

Specification Sheet (Part/REF # 243700)



Incyte measures permittivity of viable cells. The signal can be correlated to the viable cell density (VCD) measured offline. This on-line VCD sensor can be used directly in the bioreactor for real-time process control, eliminating the need for offline sampling.

## Product Specifications

<b>Sensor Family</b>	Incyte
<b>Parameter</b>	Viable Cell Density
<b>a-length</b>	120 mm
<b>Electrical Connector</b>	M12
<b>Measurement Principle</b>	Permittivity
<b>Measuring Range</b>	0 to 700 pF/cm, equivalent to $5 \times 10^5$ to $8 \times 10^9$ cells/mL (mammalian) or 5 to 200 g/L dry weight (bacteria and yeast)
<b>Diameter</b>	12 mm
<b>Process Connection</b>	PG13,5
<b>Wetted Parts</b>	Platinum Stainless Steel 1.4435 PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer) See compliance details in Material Specification document
<b>Surface Quality of Steel</b>	Ra < 0.4 µm (N5)
<b>Certificate</b>	Yes
<b>Autoclavable</b>	Yes, max. Temperature 130 °C
<b>CIP</b>	Yes
<b>Steam Sterilizable</b>	Yes, max. Temperature 135 °C
<b>Operating Temperature Range</b>	0 to 60 °C
<b>Conductivity Range</b>	2 to 50 mS/cm
<b>Pressure Range bar g</b>	0 to 12 bar

Specifications are subject to change without notice  
<https://www.hamiltoncompany.com/sensors/243700>

Spec. Version B