

Incyte Arc Expert - 120

Specification Sheet (Part/REF # 243950-0211)



Incyte Arc sensors enable real-time, in-situ measurement of viable cells, making it possible to detect events and respond in real time without increased off-line sampling.

Product Specifications

Sensor Family	Incyte Arc Expert
Parameter	Viable Cell Density
Sensor Output	Arc: Modbus
a-length	120 mm
Electrical Connector	VP8
Measurement Principle	Permittivity
Measuring Range	0 to 700 pF/cm, equivalent to 5×10^5 to 8×10^9 cells/mL (mammalian)
Temperature Sensor	Yes
Configurable Values	VCD, Conductivity, Temperature
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Platinum Stainless Steel 1.4435 PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer)
O-ring Material	EPDM (Ethylene propylene elastomer)
Surface Quality of Steel	Ra < 0.4 μm (N5)

Digital Interface	RS485 Modbus (max. 31 addresses)
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 bd
Operating Voltage	24 V ($\pm 10\%$)
Serial Number	Yes
Certificate	Yes
Autoclavable	Yes, max. Temperature 130 °C (Incyte Arc Revision 00) Yes, max. Temperature 140 °C (Incyte Arc Revision 01 and higher)
CIP	Yes
Steam Sterilizable	Yes, max. Temperature 140 °C
Operating Temperature Range	0 to 60 °C
Conductivity Range	1 to 80 mS/cm for firmware below CDCUM003 0.5 to 80 mS/cm for firmware CDCUM003 and above (with Hamilton calibration)
Pressure Range bar g	0 to 12 bar

Specifications are subject to change without notice

Spec. Version D

<https://www.hamiltoncompany.com/process-analytics/sensors/243950-0211>