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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)
Accuracy at 25 °C	Conductivity (at 0 pF): \pm 25 μS or \pm 1 % Whichever value is greater over the entire measuring range
Precision at 25 °C	Permittivity (at 1 MHz): \pm 1 pF or \pm 1 % Whichever value is greater over the entire measuring range
Temperature Sensor	Yes
Configurable Values	VCD, Conductivity, Temperature
Diameter	12 mm
Process Connection	PG13,5



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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	19200, 38400, 57600,115200 Bd
Operating Voltage	24 V (± 10 %)
Serial Number	Yes
Certificate	Yes
Autoclavable	Yes, max. Temperature 130 °C (Incyte Arc Revision 00)
Autociavable	Yes, max. Temperature 140 °C (Incyte Arc Revision 00)
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
Resolution at 25 °C	0.1 pF/cm
Max. Accuracy	Conductivity (at 0 pF): \pm 100 μS (for whole operating temperature range)
Max. Precision	Permittivity (over all frequencies): \pm 1 pF (for whole operating temperature range)
Specifications are subject to chan	ge without notice

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