

Conducell 4USF Arc 120

Specification Sheet (Part# 242159)

The Conducell 4USF Arc sensor is suited for measurement in hygienic applications. All wetted parts are FDA approved. It can be cleaned easily and withstands CIP cleanings and autoclavations. The sensor shows very good linearity over a broad range of conductivities.



Product Specifications

alength	120 mm
Measurement Principle	4 pole contacting
Measuring Range	1 μ S/cm to 300 mS/cm
Accuracy	$\pm 3\%$ at 1 μ S/cm to 100 mS/cm, $\pm 5\%$ at 100 to 300 mS/cm
Cell Constant	0.36 /cm
Temperature Sensor	NTC 22 kOhm
Configurable Values	Conductivity: μ S/cm, mS/cm; Temperature: $^{\circ}$ C, $^{\circ}$ F, K
ATEX Approval	No
Autoclavable	Yes, max. Temperature 130 $^{\circ}$ C
CIP	Yes
Steam Sterilizable	Yes, max. Temperature 140 $^{\circ}$ C
Operating Temperature Range	Analog interface: 0 to 110 $^{\circ}$ C; Digital interface: 0 to 140 $^{\circ}$ C
Pressure Range (bar g)	0 to 20 bar (130 $^{\circ}$ C)
O-ring Material	EPDM (FDA approved, USP class VI)
Surface Quality of Steel	Ra < 0.4 μ m (N5, electropolished)
Certificate	Yes

Product Specifications

Diameter	12 mm
Process Connection	PG13,5
Electrical Connector	VP8
Wetted Parts	Stainless steel 1.4435, PEEK (FDA approved, USP class VI), EPDM (FDA approved, USP class VI)
Analog Interface 1	4-20 mA for conductivity, programmable
Analog Interface 2	4-20 mA, programmable
Analog Interface 1 and 2	Galvanically not isolated; pulse width modulation 3.5 kHz
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 bd
Operating Voltage	7 to 30 VDC max. 150 mW
Digital Interface	RS485 Modbus, max 31 addresses
Serial Number	Yes

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Revision: A / 2010-05-11 Printed in the U.S.A.

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