

Conducell UPW Arc PG13,5

Specification Sheet (Part/REF # 243579)



Available with either PG13,5 or Tri-Clamp process connections. The removable Arc module gives intelligent sensor capabilities with a traceable simulator for USP 645 compliance.

Product Specifications

Sensor Family	Conducell UPW
a-length	120 mm
Parameter	Conductivity (2-pole)
Electrical Connector	VP8
Sensor Output	Arc: Modbus, 4 to 20 mA
Measurement Principle	2 pole contacting
Measuring Range	0.01 to 1500 $\mu\text{S}/\text{cm}$
Accuracy at 25 °C	$\pm 3 \%$
Cell Constant	$< 0.1 / \text{cm}$
Temperature Sensor	NTC 22 kOhm
Configurable Values	Conductivity: $\mu\text{S}/\text{cm}$, mS/cm; Temperature: °C, °F, K
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Stainless Steel 1.4435 PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer) See compliance details in Material Specification document
Surface Quality of Steel	$R_a < 0.4 \mu\text{m}$ (N5, electropolished)
Analog Interface 1	4 to 20 mA for conductivity, programmable
Analog Interface 2	4 to 20 mA for Temp., programmable
Analog Interface 1 and 2	Galvanically not isolated; pulse width modulation 3.5 kHz
Digital Interface	RS485 Modbus (max. 31 addresses)
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 Bd
Operating Voltage	7 to 30 VDC max. 150 mW
Serial Number	Yes
Certificate	Yes, with nominal and actual cell constant
ATEX Approval	No
IECEX Approval	No
Autoclavable	Yes, max. Temperature 130 °C
CIP	Yes
Steam Sterilizable	Yes, max. Temperature 140 °C

Specifications are subject to change without notice

Spec. Version C

<https://www.hamiltoncompany.com/sensors/243579>