

Conducell 4USF Arc 120

Specification Sheet (Part/REF # 243590-1111)



Conducell 4UxF Arc conductivity sensors allow calibrations to be stored in the sensor and direct connection to the control system.

Product Specifications

| a-length | 120 mm |
|--------------------------|---|
| Electrical Connector | VP8 |
| Measurement Principle | 4 pole contacting |
| Measuring Range | 1 μS/cm to 300 mS/cm |
| Accuracy at 25 °C | \pm 3 % at 1 $\mu S/cm$ 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: µS/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 | Ra < 0.4 μm (N5, electropolished) |
| Analog Interface 1 | 4 to 20 mA for conductivity, programmable |
| Analog Interface 2 | 4 to 20 mA for Temp., programmable |



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| 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 calibrated cell constant | |
| ATEX Approval | No | |
| IECEx Approval | No | |
| Autoclavable | Yes, max. Temperature 130 °C | |
| CIP | Yes | |
| Steam Sterilizable | Yes, max. Temperature 140 °C | |
| Operating Temperature Range | Analog interface: 0 to 110 °C; Digital interface: 0 to 140 °C | |
| Pressure Range bar g | 0 to 20 bar (130 °C) | |
| Specifications are subject to change without notice | | Spec. Version B |

https://www.hamiltoncompany.com/process-analytics/sensors/243590-1111



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