## Conducell 4US-T150-50

Specification Sheet (Part/REF # 237750)



## HAMILTØN

With Triclamp and G 1 1/4" process connections the Conducell 4US can be directly mounted into sanitary process fittings with no additional housing needed.

## **Product Specifications**

Parameter     Conductivity (4-Pole)       Sensor Output     Traditional       a-length     50 mm       Electrical Connector     5 m Fix Cable / Open End       Measurement Principle     4 pole contacting       Measuring Range     0.1 µS/cm to 500 mS/cm       Cell Constant     0.147 /cm       Temperature Sensor     Pt1000       Diameter     24 mm       Process Connection     Triclamp 1.5"       Wetted Parts     Stainless Steel 1.4435 PEEK (Polyetharertherketone) EPDM (Ethyleine propyleine elastomer) See compliance details in Material Specification document       Surface Quality of Steel     Na < 0.4 µm (NS, electropolished)       EEK Approval     11/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D Ia IIIC T x "C Da/Db       EEKE Approval     11/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D Ia IIIC T x "C Da/Db       Autoclavable     No       CiP     Yes       Steam Sterilizable     Yes       CiP     Yes       Steam Sterilizable     Yes		
Sensor Output     Traditional       a-length     50 mm       Electrical Connector     5 m Fix Cable / Open End       Measurement Principle     4 pole contacting       Measuring Range     0.14 µ5/cm to 500 m5/cm       Cell Constant     0.147 /cm       Temperature Sensor     Pt1000       Diameter     24 mm       Process Connection     Triclamp 1.5"       Stalle Stall 1.4435     Stalle Stall 1.4435       PEKK (Polyetheretherketone)     EPDM (Ethylene propylene elastomer)       See compliance details in Material Specification document     Stalles 3 teal 1.4435       Starlace Quality of Steel     Mea < 0.4 µm (N5, electropolished)       Serial Number     Yes       Certificate     Yes, with nominal and actual cell constant       Attex Approval     11/2 G Ex la IIB T4/T5/T/6 Ga/Gb; II 1/2 D la IIIC T x *C Da/Db       LiteEx Approval     11/2 G Ex la IIB T4/T5/T/6 Ga/Gb; II 1/2 D la IIIC T x *C Da/Db       Attoclavable     No       Cite Stall TA/T5/TF6 Ga/Gb; II 1/2 D la IIIC T x *C Da/Db       Steam Sterilizable     Yes       Yes     Cite Job T S *C	Sensor Family	Conducell 4US
a-length   50 mm     Electrical Connector   5 m Fix Cable / Open End     Measurement Principle   4 pole contacting     Measuring Range   0.1 µS/cm to 500 mS/cm     Cell Constant   0.147 /cm     Temperature Sensor   P1000     Diameter   24 mm     Process Connection   Triclamp 1.5"     Wetted Parts   Stainless Steel 1.4435 PEPDM (Ethylene propylene elastomer) See compliance details in Material Specification document     Surface Quality of Steel   Ra < 0.4 µm (NS, electropolished)     AttEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x *C Da/Db     AttEX Approval   II 2/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x *C Da/Db     Atteclavable   No     Certificate   Yes     Autoclavable   Yes     Cate Steel II 20 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x *C Da/Db     Eteem Sterilizable   Yes     Cite Yes   Yes </th <th>Parameter</th> <th>Conductivity (4-Pole)</th>	Parameter	Conductivity (4-Pole)
Flectrical Connector   5 m Fix Cable / Open End     Measurement Principle   4 pole contacting     Measuring Range   0.1 μS/cm to 500 mS/cm     Cell Constant   0.147 /cm     Temperature Sensor   Pt1000     Diameter   24 mm     Process Connection   Triclamp 1.5"     Wetted Parts   Stainless Steal 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)     Serial Number   Yes, with nominal and actual cell constant     Attecd Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x *C Da/Db     Attecdavable   No     CiP   Yes     Stainligs Steriligable   Yes     Yes   Yes	Sensor Output	Traditional
Measurement Principle     4 pole contacting       Measuring Range     0.1 µS/cm to 500 mS/cm       Cell Constant     0.147 /cm       Temperature Sensor     Pt1000       Diameter     24 mm       Process Connection     Triclamp 1.5"       Wetted Parts     Stainless Steel 1.4435 PEEK (Polyetheretherketone) EFDM (Ethylene propylene elastomer) See compliance details in Material Specification document       Surface Quality of Steel     Ra < 0.4 µm (N5, electropolished)	a-length	50 mm
Measuring Range   0.1 μS/cm to 500 mS/cm     Cell Constant   0.147 /cm     Temperature Sensor   Pt1000     Diameter   24 mm     Process Connection   Triclamp 1.5"     Wetted Parts   Stainless Steel 1.4435 PEEK (Polyetheretherktone) EPDM (Ethylene propylene elastomer) See compliance details in Material Specification document     Surface Quality of Steel   Ra < 0.4 μm (N5, electropolished)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     Attoclavable   No     CiP   Yes     Steam Sterillizable   Yes     CiP   Yes     Steam Sterillizable   Yes     CiP   Yes     Staine Sterillizable   Yes	Electrical Connector	5 m Fix Cable / Open End
Ceil Constant   0.147 /cm     Temperature Sensor   Pt1000     Diameter   24 mm     Process Connection   Triclamp 1.5"     Wetted Parts   Stainless Steel 1.4435 PEEK (Polytehrertherketone) EPDM (Ethylene propylene élastomer) See compliance details in Material Specification document     Surface Quality of Steel   Ra < 0.4 µm (N5, electropolished)     Serial Number   Yes     Certificate   Nes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     IECEX Approval   No     CIP   Yes     Steam Sterilizable   Yes     Ciperating Temperature Range   -20 to 135 °C	Measurement Principle	4 pole contacting
Temperature Sensor   Pt1000     Diameter   24 mm     Process Connection   Triclamp 1.5"     Wetted Parts   Stainless Steel 1.4435 PEEK (Polyekheretherketone) EPDM (Ethylene propylene elastomer) See compliance details in Material Specification document     Surface Quality of Steel   Ra < 0.4 µm (N5, electropolished)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x *C Da/Db     IECEx Approval   No     CIP   Yes     Steam Sterilizable   Yes     Operating Temperature Range   -20 to 135 °C	Measuring Range	0.1 μS/cm to 500 mS/cm
Diameter   24 mm     Process Connection   Triclamp 1.5"     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)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     IECEx Approval   No     CIP   Yes     Steam Sterilizable   Yes     Operating Temperature Range   20 to 135 °C	Cell Constant	0.147 /cm
Process Connection   Triclamp 1.5"     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)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     IECEx Approval   No     CIP   Yes     Steam Sterilizable   Yes     Operating Temperature Range   -20 to 135 °C	Temperature Sensor	Pt1000
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)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     IECEx Approval   No     Curdicavable   No     CiP   Yes     Stain Sterilizable   Yes     Operating Temperature Range   -20 to 135 °C	Diameter	24 mm
PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer) See compliance details in Material Specification document     Surface Quality of Steel   Ra < 0.4 μm (N5, electropolished)     Serial Number   Yes     Certificate   Yes, with nominal and actual cell constant     ATEX Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     IECEx Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     Autoclavable   No     CIP   Yes     Steam Sterilizable   Yes     Operating Temperature Range   -20 to 135 °C	Process Connection	Triclamp 1.5"
Serial NumberYesCertificateYes, with nominal and actual cell constantATEX ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbIECEx ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbAutoclavableNoCIPYesSteam SterilizableYesOperating Temperature Range-20 to 135 °C	Wetted Parts	PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer)
CertificateYes, with nominal and actual cell constantATEX ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbIECEx ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbAutoclavableNoCIPYesSteam SterilizableYesOperating Temperature Range-20 to 135 °C	Surface Quality of Steel	Ra < 0.4 µm (N5, electropolished)
ATEX ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbIECEx ApprovalII 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/DbAutoclavableNoCIPYesSteam SterilizableYesOperating Temperature Range-20 to 135 °C	Serial Number	Yes
IECEx Approval   II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db     Autoclavable   No     CIP   Yes     Steam Sterilizable   Yes     Operating Temperature Range   -20 to 135 °C	Certificate	Yes, with nominal and actual cell constant
Autoclavable No   CIP Yes   Steam Sterilizable Yes   Operating Temperature Range -20 to 135 °C	ATEX Approval	II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
CIP Yes   Steam Sterilizable Yes   Operating Temperature Range -20 to 135 °C	IECEx Approval	II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
Steam Sterilizable Yes   Operating Temperature Range -20 to 135 °C	Autoclavable	No
Operating Temperature Range -20 to 135 °C	CIP	Yes
	Steam Sterilizable	Yes
Pressure Range bar g 0 to 6 bar	Operating Temperature Range	-20 to 135 °C
	Pressure Range bar g	0 to 6 bar

INTTERTECH RIO CONTROLE DE PROCESSOS E INSTRUMENTAÇÃO (21) 99607-2513 contato@intertechrio.com.br intertechrio.com.br