SCT1100 series   On-line
Water Conductivity/Resistance/Specific Conductivity Measurement

Conductivity Transmitter

Ref: SCTIntE

___IEEE1451.2 STIM Compatible, 1451.1 NCAP Network support.   Analog and Digital Signals Output. Remote Setup and Operate.

- *Continuous analysis. Direct measurement in sample*
- *Accurate and reliable, low-maintenance*
- *Self diagnostic, professional intelligent, Menu-driven digital user interface*
- *Auto diagnostic and alarm, optional purge or flush and bubble sucker accessories*
- *Easy maintenance __ on time clear or replace of sensor in sito*
- *Data log of measurements for day/month/year*
- *One-year warranty*

Application:

- Industrial Process Water
- Boiler/Cooling Water Flow Application
- Ultra pure Water Application
- Wastewater Treatment Application
- Drinking Water Treatment
- Boiler/Cooling Generation Flow Application
- Agriculture and Aquaculture Water
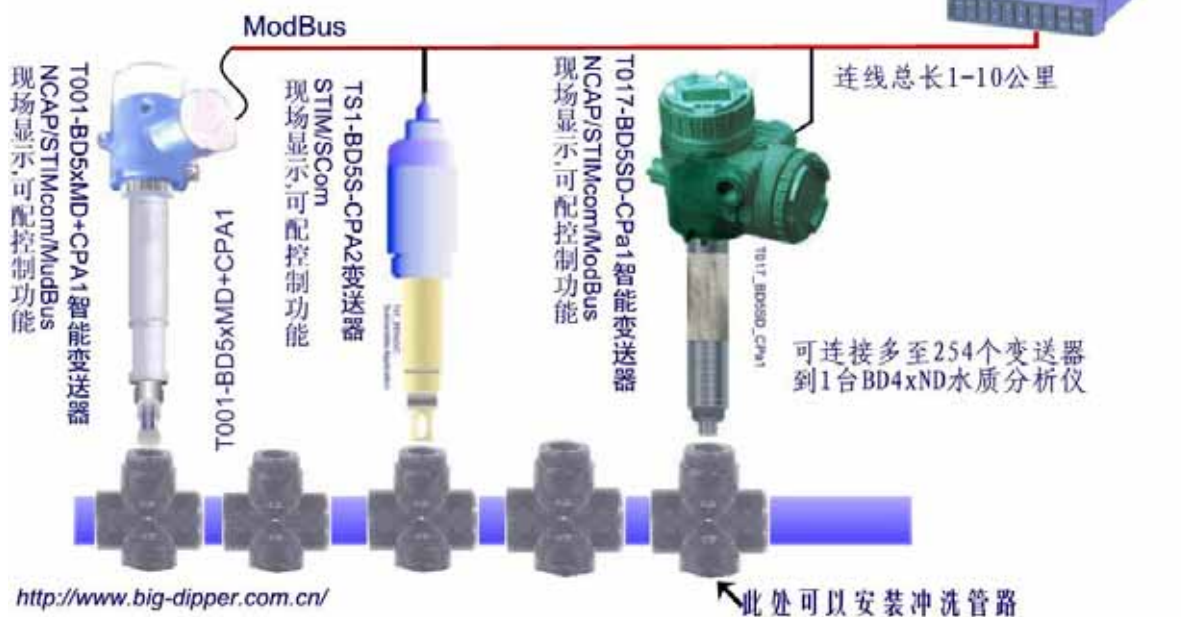
Feature

- Auto temperature compensation.
- User calibration at field to get high accuracy application
- One sample or on-line sample correction function available
- Experiences low power design, maybe driven by battery or solar battery in remote area.
- Unit convert function included. Specified temperature standard SCT can be calculated via experienced relations, or user define with BD5xMD upper system

Electronics of STIM Transducer

- Linear analog signal output, 0/4 to 20 mA select. dedault status is 0 to 20 mA
- RS232 serial port always available, RS485 attached as to BD5xB upper configuration.
- Power supply: DC 9 to 24 V; consumption<100mAx5V
- Intrinsic safe design
- Alarm drive output available
- ADC resolution: 16bit
- For more details, please refer to : BD4&5IntE

Specifications

Model	SCT1122-0.1	SCT1122-1	SCT1122-10	SCT1131
Cell constant	K=0.1/cm	K=1/cm	K=10/cm	
Conductivity	0.004-10000μs/cm	0.002-100ms/cm	2-1,000ms/cm	
Salinity(g/L,ppt)	0.00001-5	0.0001-50	0.001-500	0-300
TDS(mg/L,ppm)	0.01-5,000	0.1-50,000		
Accuracy	$\pm$1.5%R or +/- 0.05%FS	$\pm$1.5%R or+/- 0.05%FS	$\pm$1.5%R or+/- 0.05%FS	$\pm$0.5-1.5%FS
Temperature	0-60 0-120	0-60 0-120	0-60 0-120	0-120 0-200
Pressure	7 kgf/cm^2. <10 kgf/cm^2@20C°	7 kgf/cm^2. <10 kgf/cm^2@20C°	7 kgf/cm^2. <10 kgf/cm^2@20C°	<16 kgf/cm^2. @100C°; <40 kgf/cm^2@20C°
CPA	CPA1-3	CPA1-3	CPA1-3	CPA1
Connect	ZG1"(NPT1")	ZG1" (NPT1")	ZG1" (NPT1")	ZG1" (NPT1")
Electronics	BDx5M/B	BDx5M/B	BDx5M/B	BDx5M/B
Principle	2 pole	2 pole	2 pole	HF SCT
Application	Pure water; Ultra pure water;	Potable water River; Lake;	Sea water; Ocean water; Salt lake;	High dissolved solid industry water

■ Installation & Accessories

CPT1 Insertion	CPA2 for dip	CPA3 for sink	CPA4 flow throw	CPA-HT2 high temperature

Order information

..\..\Water\Transducer\WaterSTIM&MeterInf_E.doc

..\Water\Transducer\WaterSTIM&MeterDimension_E.doc
More Information for Water Transducers

Water transducer: http://www.fullsense.com/Products/Water/
Electrochemical transducer:http://www.fullsense.com/Products/BD3000/CPT3200/CPT3200IntE.htm
Electrochemical sensor: http://www.fullsense.com/Products/BD3000/CPelectrodeList_E.htm
Conductivity transducer:http://www.fullsense.com/Products/Liquid/Water/SCT/SCTIntE.htm
Turbidity transducer:http://www.fullsense.com/Products/Liquid/Water/Turbidity/TurbIntE.htm
Mud concentration transducer: http://www.fullsense.com/Products/Liquid/Water/Mud/MudIntE.htm
TDO(TOC/COD/BOD) transducer: http://www.fullsense.com/Products/Liquid/Water/TDO/UV4120TDOIntE.htm
Multi-parameters transducer: http://www.fullsense.com/Products/Liquid/Water/wm10/wm10IntE.htm
Water transducer application: <examples>
Information for Accessories: http://www.big-dipper.com.cn/Products/Liquid/Water/Wt_Parts_IntE.htm

BD4Controller & BD5 STIM

http://www.fullsense.com/Meters/

BD4&5Introduction: http://www.fullsense.com/Meters/BD4_IntE.htm

BD4&5 Functions: http://www.fullsense.com/Meters/BD4_TB_E.thm

BD4&5 Selection: http://www.fullsense.com/Meters/BD4_Sel_E.htm

BD4_5Configuration: http://www.fullsense.com/MetersBD4_Cfg_E.htm

BD4Application: http://www.fullsense.com/Meters/BD4_AG_E.htm

Related Technical References:

http://www.fullsense.com/Network/

Scom Protocol

STIMcom Protocol

IEEE1451.1 NCAP Protocol

IEEE1451.2 STIM Protocol