



SCICON™ II CONDUCTIVITY SENSOR & MONITOR

Installation, Operation & Maintenance Instructions



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Parker has a continuous policy of product development and although the Company reserves the right to change specification, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact your local Bioscience Filtration Sales and/or Technical Support contact for detailed information and advice on a product's suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.





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Revision History:

Revision:	Description:	Author:
A	Original, Based on SciLog SciCon Manual	Arthur Dawson
B	Updates to SciDoc II section, Analog Output section, and added serial number structure	A Dawson / A Allen

Precautions

READ this manual BEFORE operating or servicing this equipment.

FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, service or tamper with this equipment.

ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL Parker Customer Service for parts, information and service.

	 WARNING
	DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.
	 CAUTION
	OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.
	 WARNING
	ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TEST AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.
	 WARNING
	FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD, CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.
	 CAUTION
	USE ONLY CLASS 2 LISTED AC/DC POWER SUPPLIES WITH THIS DEVICE. Parker part number 070-017TOR, OR ITS EQUIVALENT IS RECOMMENDED.

Précautions

LISEZ ce manuel AVANT de faire fonctionner ou d'entretenir cet équipement.

SUIVEZ attentivement ces instructions.

CONSERVEZ ce manuel pour future référence.

NE LAISSEZ PAS du personnel non qualifié utiliser, nettoyer, inspecter, entretenir, réparer ou manipuler cet équipement.

DÉBRANCHEZ TOUJOURS cet équipement de la source de courant avant de nettoyer ou d'exécuter l'entretien.

APPELEZ PARKER pour pièces détachées, renseignements et entretien.

	 ATTENTION
	DÉBRANCHEZ TOUT COURANT DE CETTE UNITÉ AVANT DE FAIRE L'INSTALLATION, D'EFFECTUER L'ENTRETIEN, LE NETTOYAGE OU AVANT DE RETIRER LE FUSIBLE. NE PAS OBSERVER CES PRÉCAUTIONS RISQUERAIT DE CAUSER DES BLESSURES CORPORELLES OU/ET D'ENDOMMAGER L'ÉQUIPEMENT.
	 PRUDENCE
	SOYEZ PRUDENT LORSQUE VOUS MANIPULEZ DES APPAREILS SENSIBLES À L'ÉLECTROSTATIQUE.
	 ATTENTION
	AUTORISEZ SEULEMENT LE PERSONNEL QUALIFIÉ À ENTREtenir CET ÉQUIPEMENT. SOYEZ PRUDENT LORSQUE DES VÉRIFICATIONS, TESTS ET AJUSTEMENTS DOIVENT ÊTRE EFFECTUÉS SOUS TENSIONS. NE PAS OBSERVER CES PRÉCAUTIONS RISQUERAIT DE CAUSER DES BLESSURES CORPORELLES.
	 ATTENTION
	POUR ASSURER UNE PROTECTION CONTINUE CONTRE UNE DÉCHARGE ÉLECTRIQUE, BRANCHEZ UNIQUEMENT SUR UNE PRISE CORRECTEMENT RELIÉE À LA TERRE. NE RETIREZ PAS LA FICHE DE TERRE.
	 PRUDENCE
	Utilisez la classe 2 énumérés AC / DC avec cet appareil. Parker part number 070-017TOR, Ou son équivalent est recommandé.

Introduction

You will find the SciCon II system easy to use. The state-of-the-art hardware and software design of the SciCon II allows you to measure and document the conductivity of many filtration / separation processes. With proper maintenance, the SciCon II monitor will provide many years of excellent service and performance.



Please read the following instructions carefully!

Inspections: Remove the products carefully from the shipping container. Check the contents against the purchase order to verify that all parts are included and undamaged.

Please do the inspection now, even if the products are not used immediately. Many carriers must receive damage claims within seven days of delivery. Please retain all packing material so the unit may be shipped safely, if necessary.

If assistance is required, please contact us at:

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Parker customer service personnel will be able to serve you more efficiently if you have the following information:

- Serial number and model name of the equipment
- Installation procedure being used
- Concise list of symptoms
- List of operating procedures and conditions in use when problem arose

Calibration

The SciCon II Monitor is a calibrated device and is calibrated with test equipment that is traceable to SI (International System of Units) through NIST (National Institute of Standards and Technology).

A Calibration Certificate is included with each unit and has a one-year expiration date.

It is highly recommended that the monitor be calibrated on an annual basis or more often if your Metrology Department deems it necessary.

Parker provides this Calibration Service, complete with a new certificate, showing the “as found” and “as left” data. You may initiate an order for this online at solutions.parker.com/service

If a quote is needed, please contact your local Parker Sales Representative.



Warranty

Country specific information can be found at: www.parker.com/termsandconditions

Standards

IEC 61326-1:2006, 2012/07/10 Ed:2

IEC 61000-3-2:2014 Ed.4

IEC 61000-3-3:2013 Ed.3

Conforms to UL STD 61010-1:2012 Ed.3+ R: 29Apr2016

Certified to CSA STD C22.2 No 61010-1-12:2012 Ed.3+U1; U2



Intertek
3187282

Installation & Start-Up

Installation of the SciCon II must be carried out only by trained personnel in accordance with the relevant regulations and this operation manual.

Make sure that the technical specifications and input ratings of the SciCon II are observed. See "SciCon II Specifications".

The protection provided by this equipment may be impaired, if the SciCon II is used in a manner or for purposes not specified by the manufacturer, Parker Hannifin Corporation.

Maintenance & Cleaning

The SciCon II Conductivity/Temperature Monitor is maintenance free. The single-use sensors come pre-calibrated from the factory and require no maintenance.

To remove dust, dirt and stains, the outer surfaces of the SciCon II Monitor may be wiped using a soft, non-fluffing cloth moistened with water. If required, you may also use a mild detergent or 2-propanol.

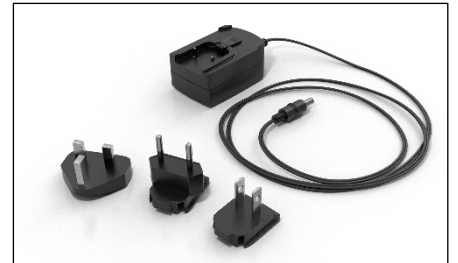
The single-use sensors may be sanitized with 0.1 Molar NaOH, or 2-propanol. They may be autoclaved twice or may be gamma irradiated.



Quick Set-up Guide

Unpack the system from the box. The contents include:

- 1 Monitor
- 1 sensor to monitor cables (CBL-007)
- 1 power supply cord with 3 adapter clips (US, EU and UK versions)



Set-up:

1. Connect the power supply using the applicable adapter clip (US is shown)
2. Connect the sensor cables to monitor ports
3. Connect sensors to cables
4. Connect power supply to outlet



This completes the SciCon II Quick Set-up.



SciCon II Monitor Specifications

Dimensions		W: 6.0" (15.2 cm); Height 2.75" (7.0 cm); D: 5.5" (14.0 cm)
Weight		1.5 lb. (0.69 Kg)
Enclosure		Molded Plastic / Stainless Steel
Electrical	Power	100-240 V, 60/50 Hz AC Adaptor, 12 VDC, 500 ma Output, Center positive. Use only Class 2 listed power supplies.
	Battery	BR2032, used for internal clock only, not user serviceable.
	Sensor	Choice of five sizes: Luer, 3/8" Barb, 1/2" Barb, 3/4" Tri-Clamp (TC) Sanitary and 1" Tri-Clamp ('Ladish') Sanitary.
	I/O Port - 1	'C/T Sensor' Female Amphenol connector
	I/O Port - 2	Output' - Female DB25, four TTL outputs for alarms, four 4-20 ma Analog output signals, 18 bit resolution.
	I/O Port - 3	'Printer / PC' - DB9FM, RS-232 output
	I/O Port - 3	'Serial I/O' - Female DB9 (disabled).
	I/O Port - 4	'12VDC 500ma' - DC Input for AC Adaptor.
	I/O Port - 5	'USB' RS-232 output, same data as "Printer /PC" port.
Software	Pressure Mode	Captures stored calibration from sensors, digital display of conductivity and temperature, analog display of conductivity, with four user-definable alarms.
Environmental	Temperature	4 – 60° C
	Altitude	Up to 2000 Meters
	IP Rating	IP50, Indoor dry environments, unit is wipe-down only
	Rel. Humidity	0 – 95%
	Voltage	Fluctuation allowed: +/- 10%
	Pollution	Degree: 2



SciCon II Sensor Specifications

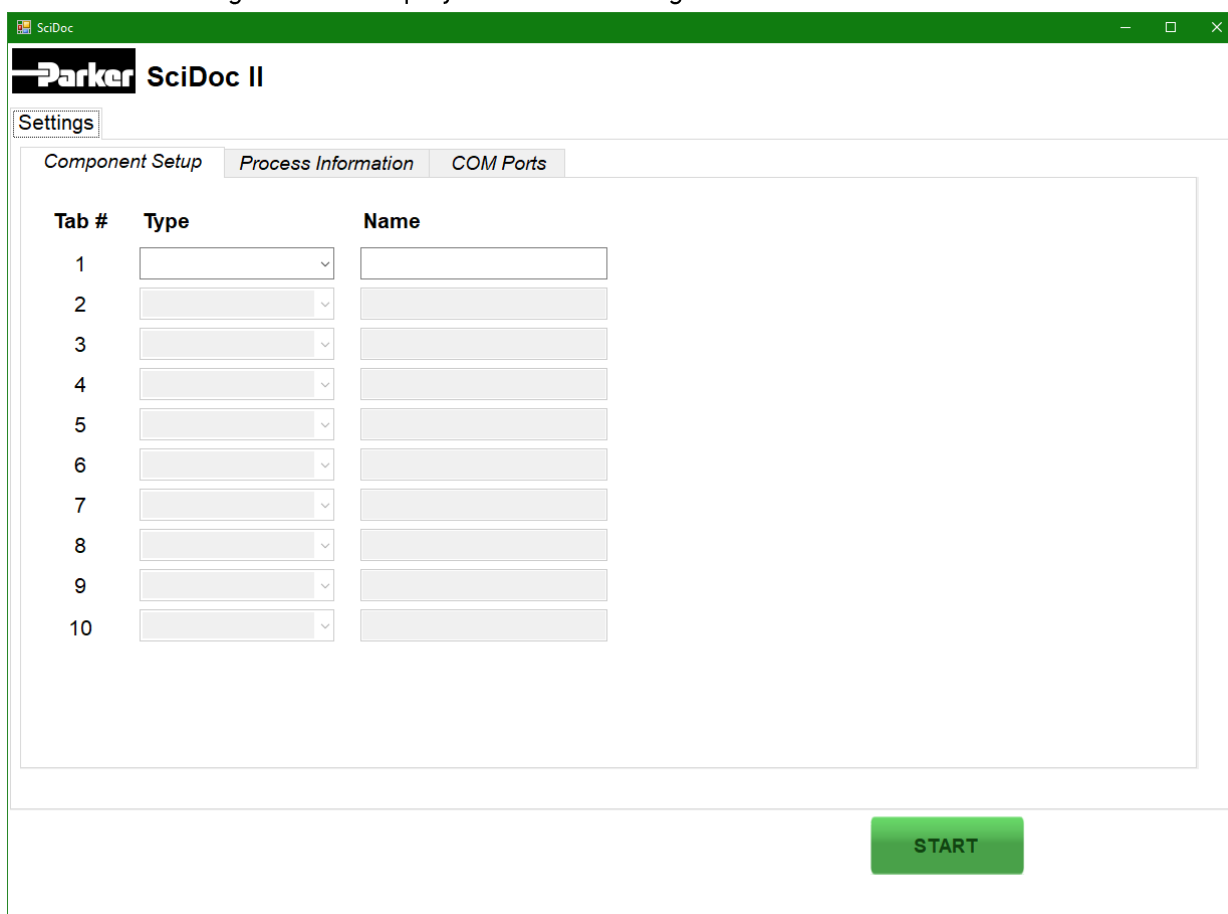
Power	5 VDC provided by SciCon II Monitor.
Fluid Connections	Choice of five sizes: Luer, 3/8" Barb, 1/2" Barb, 3/4" Tri-Clamp (TC) Sanitary and 1" Tri-Clamp ('Ladish') Sanitary.
Wetted Materials	Polysulfone transfer tube, Silicone gasket, and a Sensing element composed of four gold plated pins. The four pins are of synthetic origin and animal derived material free to the best of our knowledge. All other fluid path components are animal derived component free. The pins have not been tested to USP 88 Class VI. All other fluid path components are USP 88 Class VI.
Sensor Type	4-Electrode Conductivity Cell, gold plated pins.
Conductivity Range	1 $\mu\text{S}/\text{cm}$ to 200 mS/cm ; Resolution: 0.1 $\mu\text{S}/\text{cm}$.
Accuracy	High range: With 95% confidence, measurement will be $\pm 5\%$ of reading for 100 μS - 150 mS (extended to 200 mS) Low range: With 95% confidence, measurement will be ± 4 μS for 0-100 μS
Temperature Range	0 - 50° C
Temperature Accuracy	$\pm 0.5^\circ \text{C}$ (At ambient)
Temperature Probe	Thermistor
Pre-Calibration	0.10 M KCL Solution, 12.88 mS at 25.0° C
Sensor Microchip	EPROM, Stores Sensor ID, and Calibration Factor.
Sensor Connector & Cables	Lockable and Waterproof.



Documentation Software for PC

The SciDoc software package provides complete process analysis with graphing of data and real-time verification and documentation of process parameters.

- Download SciDoc II software .zip file from <https://discover.parker.com/lab-system-support>
- Extract the files to your chosen location and run Setup.exe to install it.
- Plug in the SciPres II monitor and connect sensors to it.
- Place in standby mode by pressing the ON/STBY button
- Use enclosed USB cable to connect with a PC to automatically create a USB Serial Device with an assigned Com Port in the Device Manager
- Go to START – All programs
- In the SciDoc folder on your PC, click on SciDoc to launch the program
- The following screen is displayed for initial configuration of the data collection.



The screenshot shows the Parker SciDoc II software interface. The title bar indicates the application name and standard window controls. The main window has a green header with the Parker logo and 'SciDoc II'. Below the header, there's a 'Settings' button. The interface is divided into three tabs: 'Component Setup', 'Process Information', and 'COM Ports'. The 'Component Setup' tab is active, displaying a table with 10 rows. Each row has a 'Tab #' column, a 'Type' dropdown menu, and a 'Name' text field. The 'START' button is located at the bottom right of the window.

Tab #	Type	Name
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



- Choose the Type of equipment from the list you are gathering data from (up to 10 may be collected from at the same time on one computer)
- Give each one an alternate name if you wish.
- Click on the **ADD** button to create a tab for each.
- Click on the Process Information tab and fill this form out as desired.
- Click on the Com Ports tab to provide alternate names to them as desired for ease of identification.

Tab #	Type	Name
1		
2	ChemTec II	
3	FilterTec II	
4	PureTec II	
5	SciPres II	
6	SciCon II	
7	SciTemp II	
8		

Batch Info

Operator:

Product Batch Number:

Product Description:

Conditions:

Initial Process Volume (mL):

Membrane Info

Manufacturer:

Type:

Lot Number:

Serial Number:

Pore Size:

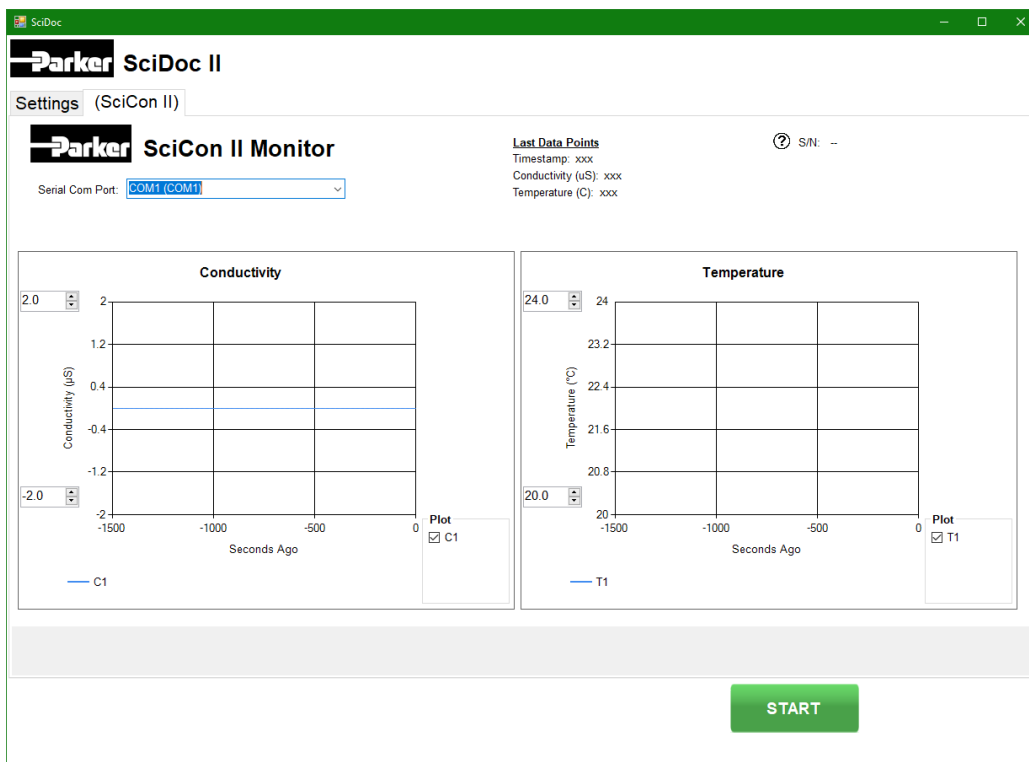
Surface Area (m²):

COM Port	Current Description	New Description
1	COM1	COM1
2	COM2	COM2
3	COM3	COM3
4	COM4	COM4
5	COM5	COM5

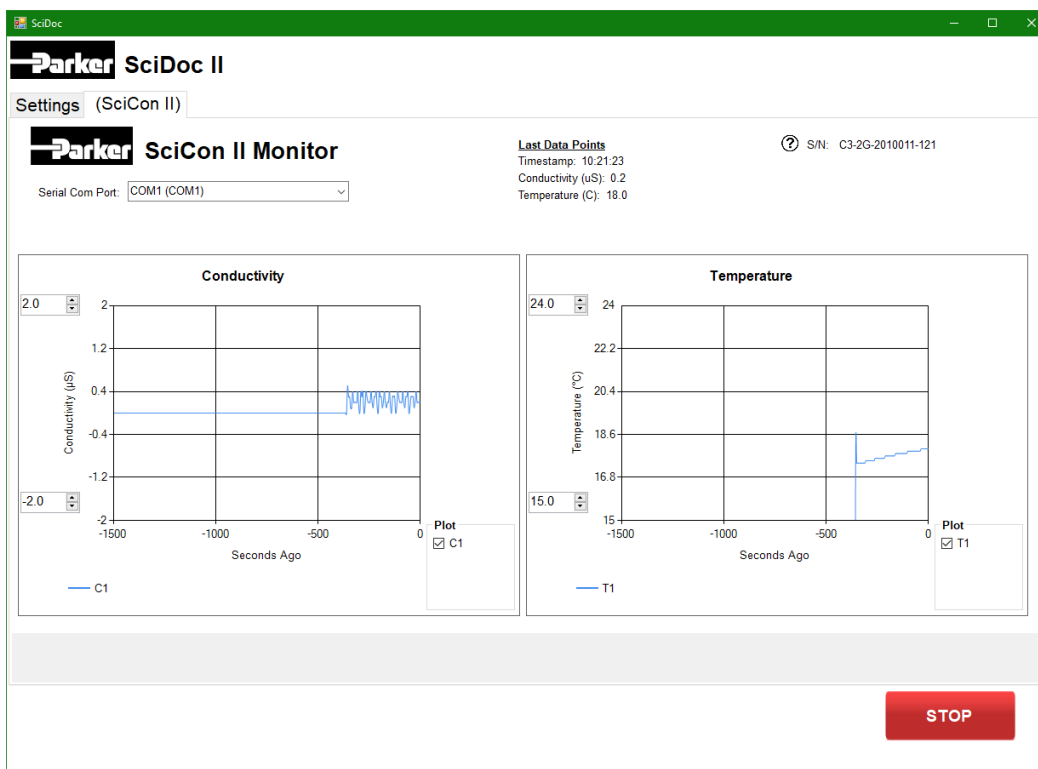
UPDATE ALL

- Open the tab for the device and select the COM Port it is connected to and the following screen (for the SciCon II) is shown.





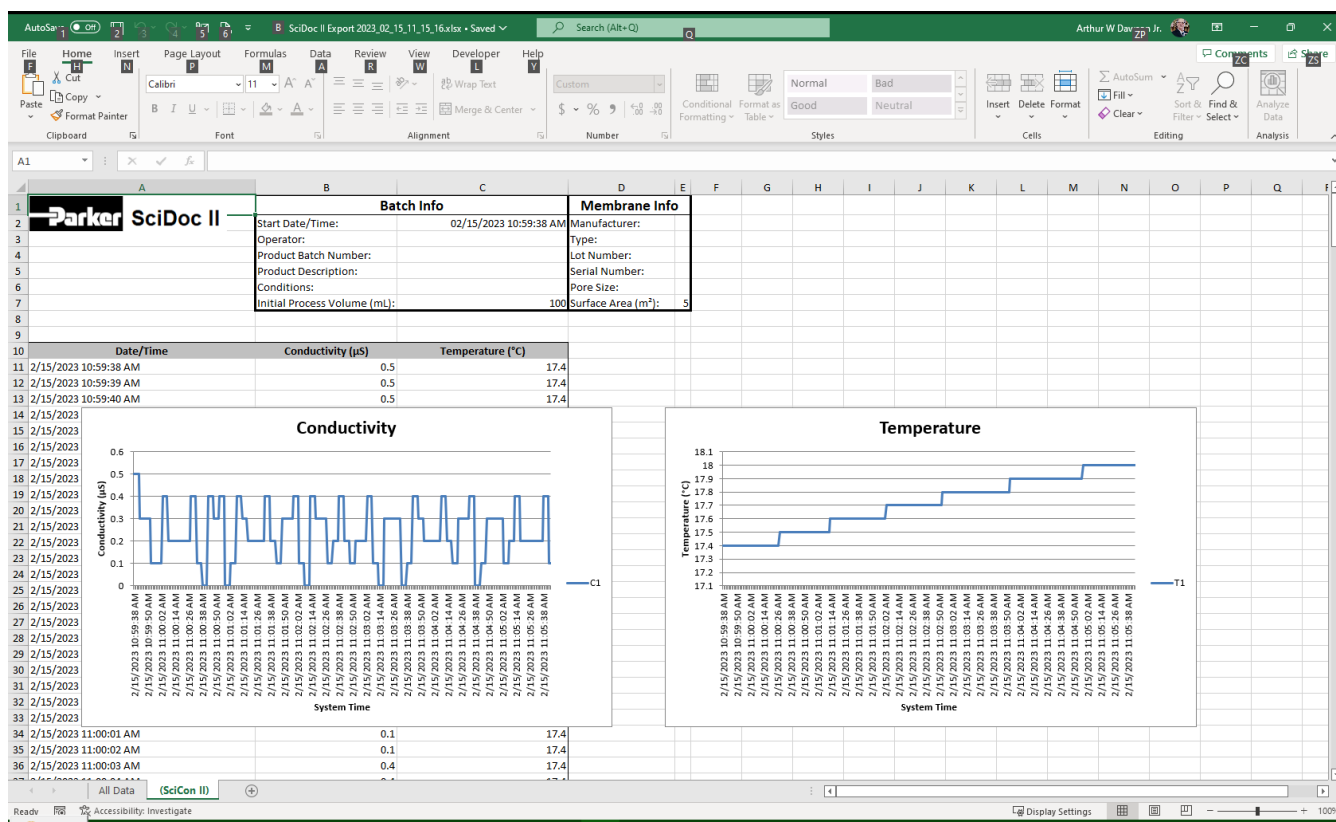
- You are now ready to begin data collection. Take the Monitor out of Standby and press the **START** button on the above to begin



- Press **STOP** to end data collection.



- Click on the **EXPORT DATA** button to create a 21CFR11 compliant spreadsheet.



A browse window opens to allow one to change the location and file name as desired. The default format is SciDoc II Export 2023_02_10_16_13_34.xlsx with date and time of the export included in the file name.





Part A: SciCon II Hardware Overview

The SciCon II consists of two major components, the SciCon II Conductivity Monitor, with its power supply, and the Single-use SciCon II Sensor, with its cable.

The Monitor is a small desktop package with a backlit display and seven buttons for easy interface and menu selections. It displays conductivity and temperature in real time in both digital and analog format. The monitor's output is also available in digital and analog formats, RS-232 and 4-20 mA. It comes with a small 100-240 VAC wall adapter as a power supply.

The single-use SciCon II Sensors utilize four gold plated electrodes in a polysulfone sensor body available in five sizes: Luer, 3/8" or 1/2" hose barb, 3/4" and 1" "Ladish" Sanitary TC connections.

For accurate measurements it is important that the sensors, solution and environment are allowed to equilibrate. If not done, the measurements will drift as the equilibration occurs during the run.

All are pre-calibrated at the factory and retain the calibration data on a small chip embedded in the sensor body. The following information is retained and is accessed upon connection to the sensor:

- ID number (Contains Size, Index, Unique Identifier, and Calibration date)
- Calibration Factor
- Temperature Offset

Front Panel: Data Entry & Display



The front panel consists of a user interface, which includes an alphanumeric display and a membrane keypad to select operational modes and alarm settings. The display is a two-line, 20-character, liquid crystal display (LCD). The display is backlit to allow easy viewing over a wide range of lighting conditions.

The keypad consists of seven keys whose function does not change. These keys are used for basic control and programming of the SciCon II. The basic key definitions are:

MENU	Allows entry into the parameter settings menu.
ENTER	Accepts the selected parameter setting.
EXIT	Exits the menu, returning to the main operational screen.
SENSOR	Recaptures the factory calibration settings stored on the sensor.
ON/STBY	Turns the monitor on and off.
▲ ▼	Up and Down arrows used to change parameters within the menus.

One LED is also on the front panel, on the ON/STBY key. This indicates the monitor is connected to power.

Back Panel: Interface Options



The SciCon II back panel provides interfacing ports for:

C/T Port: The SciCon II conductivity sensors are connected here using the included cables.

Output: Female DB25, Provides two 4-20 mA analog outputs, (18 bit resolution) for Conductivity and Temperature, and TTL outputs for the 4 alarms, Hi/Low Conductivity, Hi/Low Temperature. TTL outputs provide a 5 VDC control signal, carry minimal current. (See Pin out on next page.)

Printer/PC: RS232 output, Female DB9, A printer cable (P/N 080-096) is required to make the connection between the printer and the SciCon II, or a Parker RS-232 to USB adapter cable (P/N 080-USB) to connect the SciCon II to a PC for data archival.

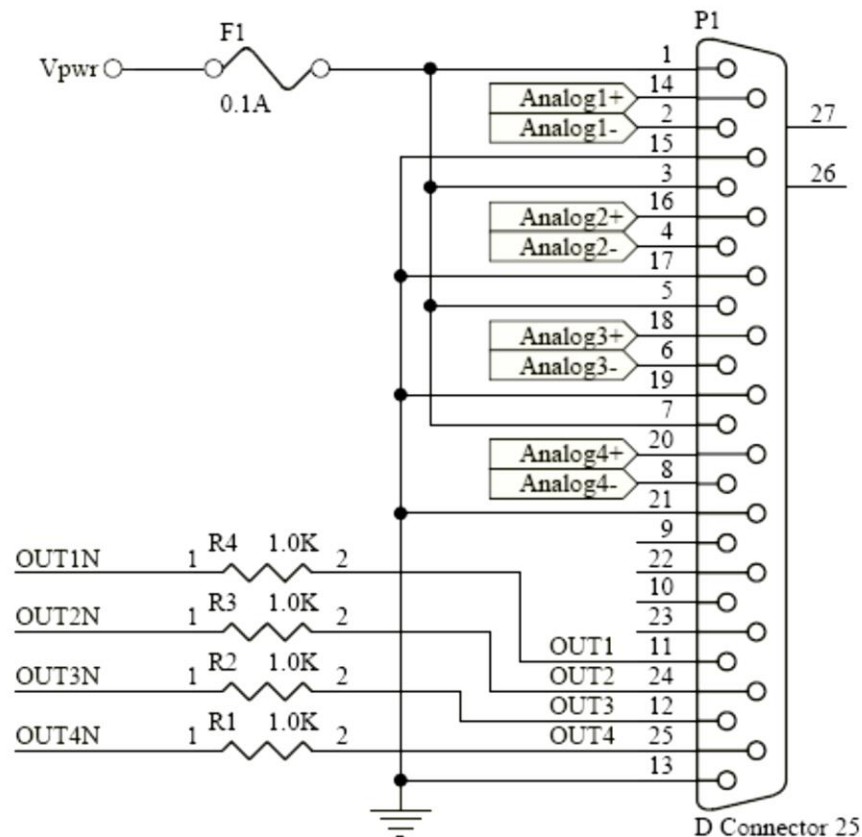
Serial I/O: Female DB9, Reserved for future use.

USB: RS-232 output identical to Printer / PC port.

12 VDC/500 mA: Round connector for AC power supply.



Pin Out of the DB25 female “Output” connector:



Analog Outputs (Note: The connections on the left in the above figure are internal)

For 4-20 ma output of Conductivity, use pins 2 (Analog1-) and 14 (Analog1+).

- If loop power is needed from the Monitor, jumper pin 1 to pin 14 and connect the output cable to pin 2 (now +) and pin 15 (now -).

For 4-20 ma output of Temperature, use pins 4 (Analog2-) and 16 (Analog2+).

- If loop power is needed from the Monitor, jumper pin 3 to pin 16 and connect the output cable to pin 4 (now +) and pin 17 (now -).

Analog outputs 3 and 4 are not utilized in the SciCon.

TTL Outputs:

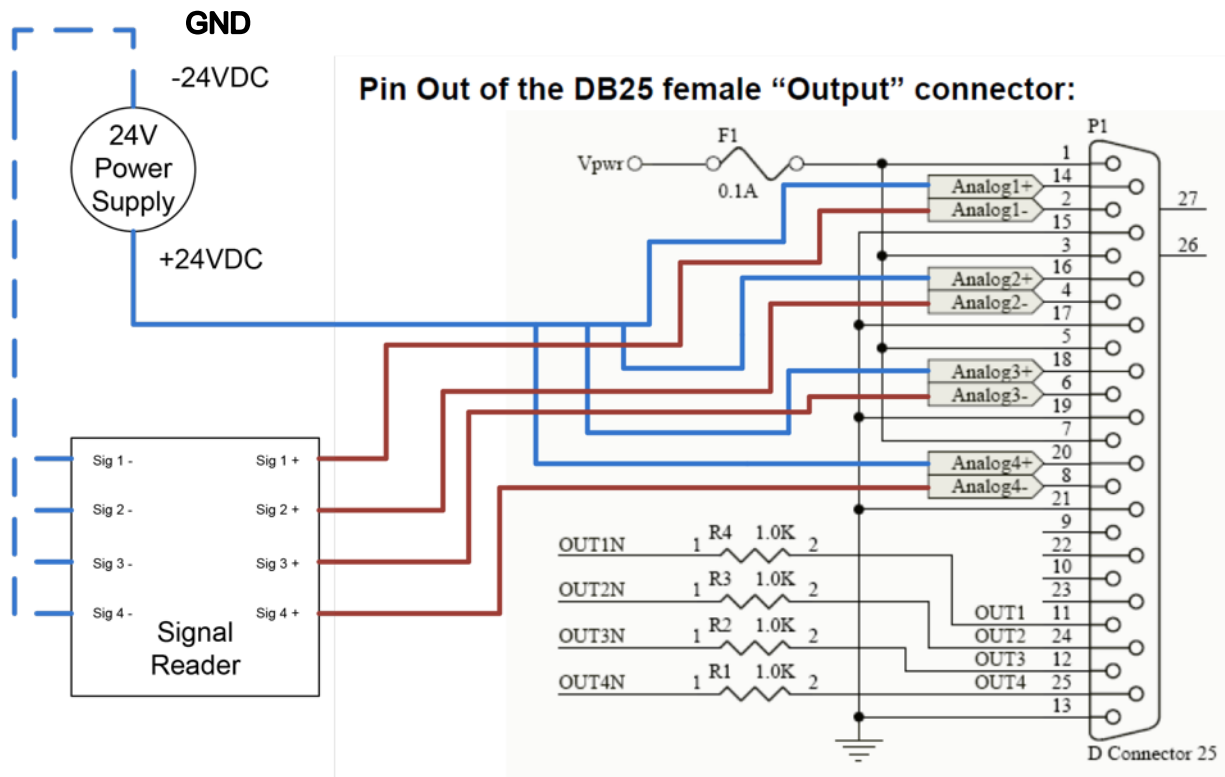
Hi Conductivity Alarm: TTL 1	Pins 11 (Out0) and 13 (Gnd)
Lo Conductivity Alarm: TTL 2	Pins 24 (Out1) and 13 (Gnd)
Hi Temperature Alarm: TTL 3	Pins 12 (Out2) and 13 (Gnd)
Lo Temperature Alarm: TTL 4	Pins 25 (Out3) and 13 (Gnd)

TTL outputs are either 0 or 5 VDC, and carry minimal current. They are for TTL inputs on a PLC, or control of a 5 VDC solid state electronic relay.



The use of an end-user supplied analog loop power source is presented below in red and blue.

Note: The other connections drawn on the left of the connector are internal. If the analog reader provides its own loop power, the connections mentioned above take precedence.



To simulate the monitor's outputs, hold the UP-arrow button for approximately 5 seconds, until the display changes to "TESTING OUTPUTS". The monitor will now toggle all the outputs between their high and low level, switching every few seconds. Specifically, the four analog outputs each are held at 4 mA for a few seconds, then at 20 mA, while the alarm outputs switch between their high (5V) and low (0V) voltage level. Press the EXIT button to leave this mode.

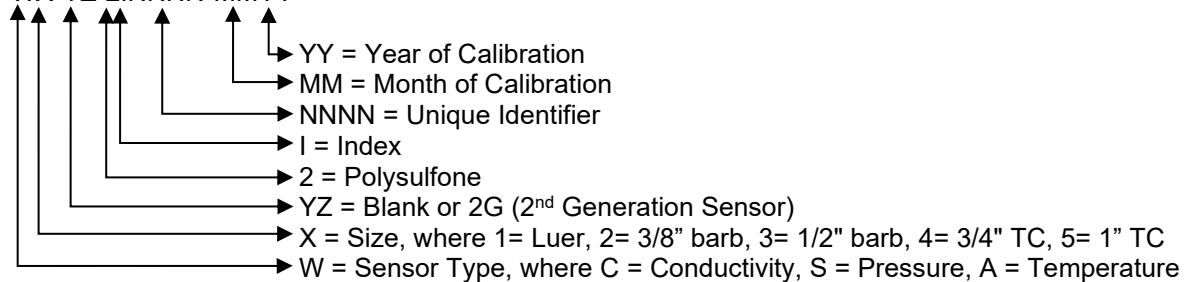
SciCon II Single-Use Conductivity/Temperature Sensors



Connector Type	Max Flow Rate	Max Pressure	Nominal Cell Volume
Luer	2 liters/min	60 psi	80 µl
3/8" Barb	8 liters/min	60 psi	0.5 ml
1/2" Barb	17 liters/min	60 psi	0.8 ml
3/4" TC	31 liters/min	60 psi	1.2 ml
1" Ladish TC	> 50 liters/min	60 psi	2.3 ml

Serial Number Structure

WX-YZ-2INNNN-MMY





Part B: SciCon II Software Overview

The SciCon II Conductivity Monitor, upon connection to the Sensor, reads the stored Sensor ID and calibration data, displaying it as it is read. The Monitor then displays the measured conductivity and temperature.

The data is displayed digitally as well as an analog display of % full scale.

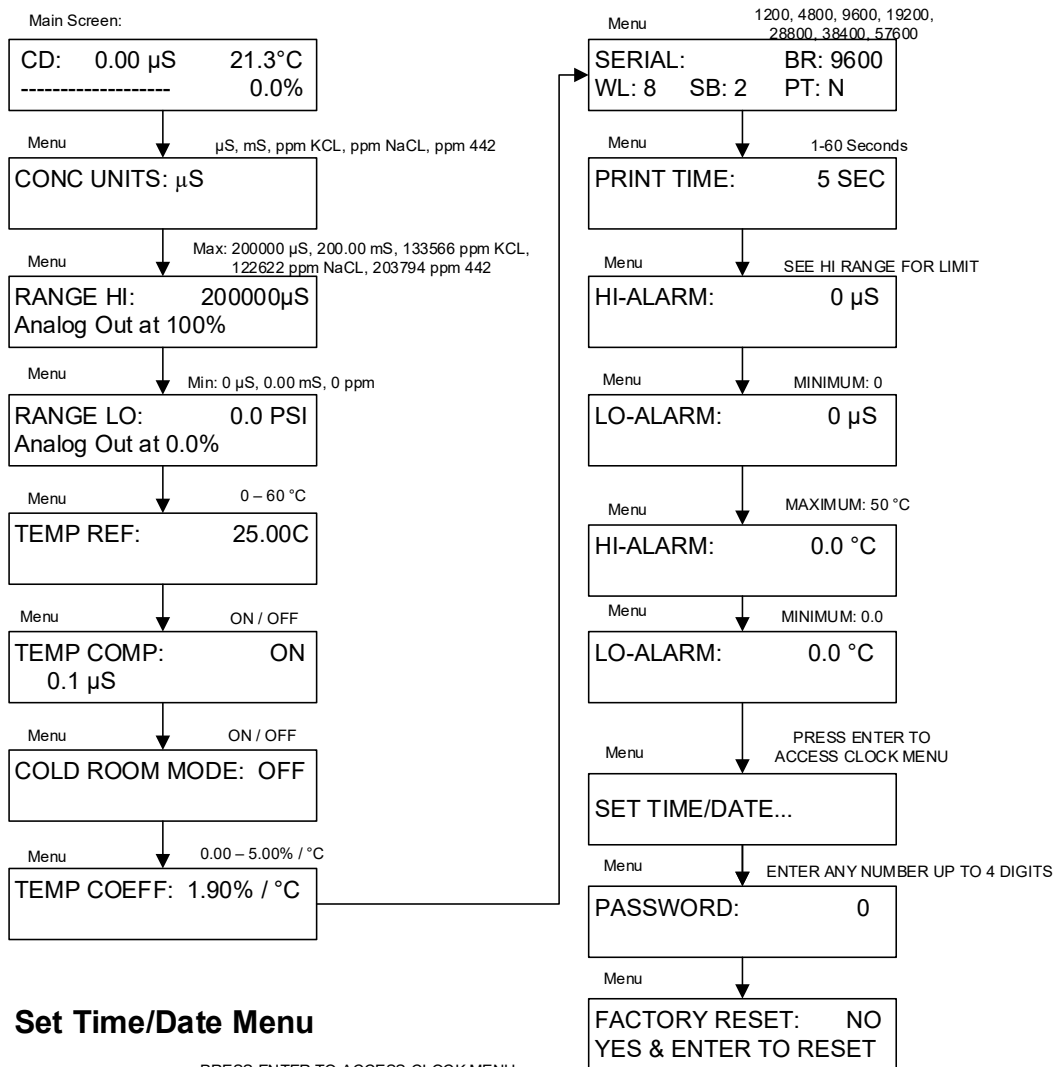
The Menu allows the setting of concentration units (ppm of NaCl, KCl, and 442 are also available), the high and low analog range settings as well as the temperature reference and coefficient. The user may also adjust the baud rate and print time and configure user-defined Hi/Low conductivity and temperature alarms.

The system is equipped with a user assigned Supervisor Password. When it is zero, it is disabled. Any other number up to 9999 can be used and is required to access any menus.

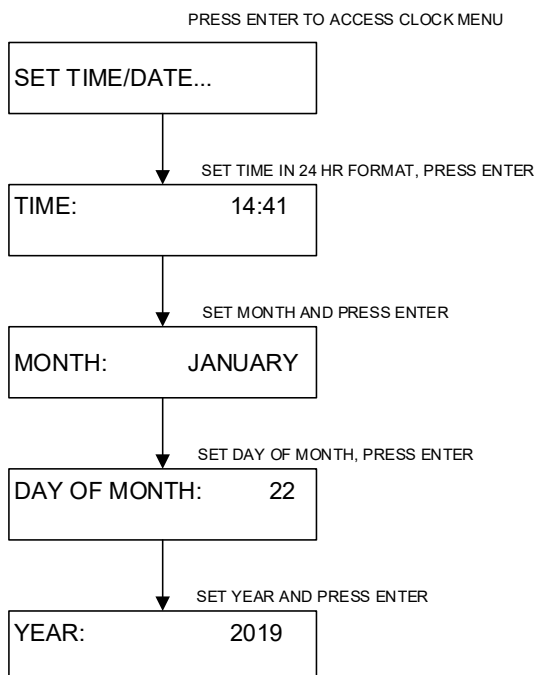
The display is updated continuously, and data is output via the RS-232 port at 5 second intervals by default. This frequency may be adjusted by the user from 1 to 60 seconds.



Main Menu



Set Time/Date Menu



Main Menu

SUMMARY: This menu allows the setting of various parameters as they relate to the process being monitored. Use "Menu" to scroll through the menu, the up/down arrow keys to scroll through choices, and "Enter" to select the choice.

NOTE: The analog output of the Temperature is over a range of 0-100°C and is not adjustable.

- MAIN SCREEN: Displays Conductivity (CD:), Temperature in °C. in line 1, and an analog bar graph of % of full scale (conductivity) along with the actual % value.
- CONCENTRATION UNITS: Use the up / down arrows to select between μS (micro siemens), mS (milli siemens), ppm KCl (parts / million potassium chloride), ppm NaCl (parts / million sodium chloride), ppm 442 (parts / million 442 solution). Default = μS
- Range Hi: Use to set the upper range limit of the Analog output signal (100% full scale). Allowable maximums are 200000 μS , 200 mS, 133566 ppm KCl, 12622 NaCl, 203794 ppm 442. Default = 200000 μS
- RANGE LO: Use to set lower range limit of the Analog output signal (0.0% of full scale). Default minimum is 0.0 regardless of scale.
- TEMP REF: Reference Temperature. It can be changed if needed; all sensors are pre-calibrated using a reference temperature of 25.0 °C. Default = 25.0
- TEMP COMP: Temperature Compensation, Turn ON or OFF, Default = ON.
- COLD ROOM MODE: Improves performance in rooms at approximately 4 °C. (Anything considerably colder than ambient) Default – OFF.
- TEMP COEFF: Temperature Coefficient, used when turned on above, 0.0 – 5.00 % / °C. Default is 1.90 % / °C.
- Serial: Displays the RS-232 serial output parameters. Only baud rate can be changed. Available rates are 1200, 2400, 4800, 9600, 19200, 28800, 38400 and 57600. Default = 9600
- PRINT TIME: Sets the data output interval, 1 to 60 sec. Default = 5 sec.
- HI – ALARM: Used to set High Conductivity Alarm, value should be within High and Low Range set above. Default = 0 μS
- LO – ALARM: Used to set Low Conductivity Alarm, value should be within High and Low Range set above. Default = 0 μS
- HI – ALARM: Set High Temperature Alarm, Max 50 °C. Default = 0.0 °C.
- LO – ALARM: Set Low Temperature Alarm, Max 50 °C. Default = 0.0 °C.



- **PASSWORD:** A numerical Password may be entered, with 0 being the default value, and equivalent to No Password. Once entered, the Password is required to enter any menu on the SciCon II Monitor. Call Parker Technical Support if the password must be reset.
- **FACTORY RESET:** Used to restore the SciCon II Conductivity Monitor to the factory default values. Change No to Yes using the arrow keys and press "Enter" to reset, change No to Yes on the "Are You Sure?" screen and press "Enter" again to finish the process.
- **SET TIME/DATE...** Press Enter to modify the Time Date Stamp used by the SciCon II internal clock. Press Menu to bypass and return to the top of the menu or Exit to leave the menu.
- **TIME:** Use the up / down arrows to change the time in the system. The format is 24 hour time, HH:MM. Press Enter to save.
- **MONTH:** Use the up / down arrows to change the Month. Press Enter to save.
- **DAY OF MONTH:** Use the up / down arrows to change the Day of the Month. Press Enter to save.
- **YEAR:** Use the up / down arrows to change the Year. Press Enter to save.

SciCon II Printout Format

RS-232 Output as sent to Serial Printer (Parker PN 080-095A) or Windows HyperTerminal:

05/14/19 0.41

12/19/19; Conductivity v0.41; uS; TEMP REF = 25.00; TEMP COEF = 1.91; ALARMS: HC= 0.0; LC= 0.0; HT= 0.0°C; LT= 0.0°C; Sensor ID=C3-2G-210012-1219; CF= 0.338; TO=0.32; CCF= 1.000; CTO=0.00

RT,	CD,	T,
10:09:17,	0.3,	18.3,
10:09:27,	0.1,	18.3,
10:09:32,	592,	18.3,
10:09:37,	664,	16.2,
10:09:42,	697,	13.6,
10:09:47,	701,	12.3,
10:09:52,	652,	12.2,
10:09:57,	694,	13.2,
10:10:02,	704,	12.6,



Abbreviation	Description
RT	Real Time
T	Temperature, °C
CF	Calibration Factor
TO	Temperature Offset
CCF	Custom Calibration Factor
CTO	Custom Temperature Offset
CD	Conductivity Value Based on Units

Alarms:	Description
HC	Hi Conductivity
LC	Low Conductivity
HT	Hi Temperature
LT	Low Temperature

RS-232 Settings

SciCon II to PC: PC communications via the Serial Port labeled “Printer / PC” or the USB port. For the Printer port to PC a Parker RS-232 Cable (P/N: 080-073) is needed. For USB connection, a standard A/B style cable (Parker P/N 080-158) is needed. As there are two ports, one can send data from the Monitor to both a PC and a Serial Printer (Parker P/N 080-095A).

The following RS-232 settings are required on the PC and the program used.

Bits per Second:	9600
Data Bits:	8
Parity:	None
Stop Bits:	1
Flow Control:	None

