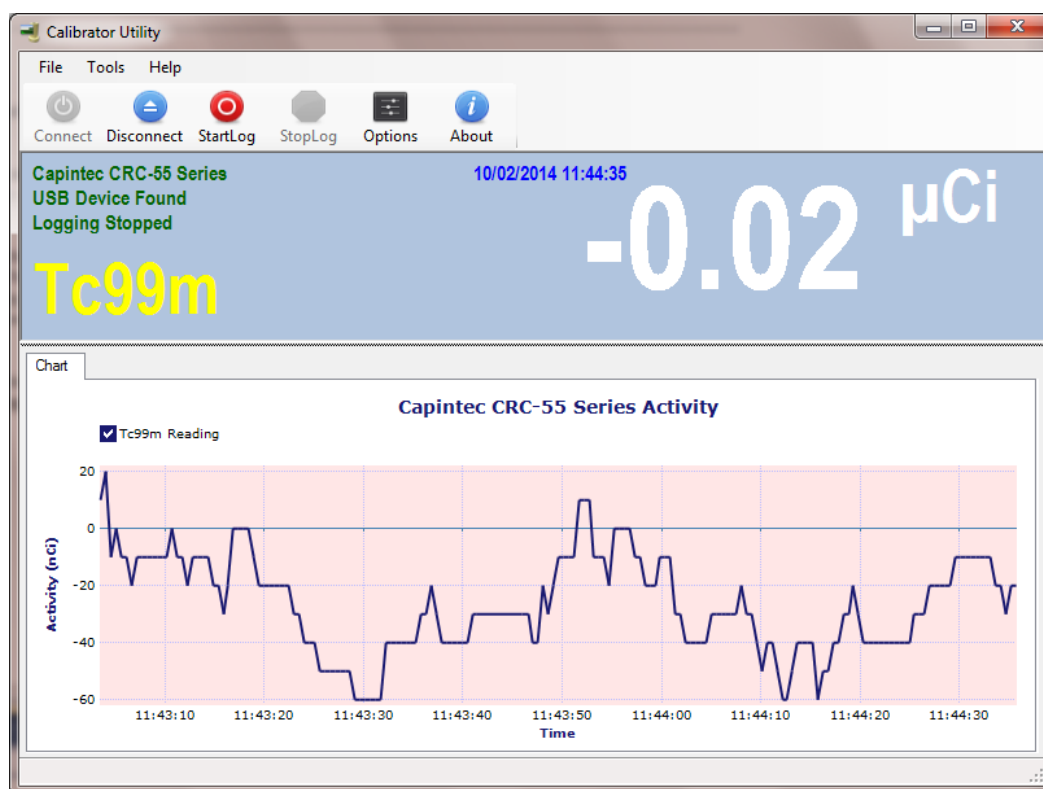




CalUtility Software User Guide



Issue	1
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Introduction

CalUtility software is a graphical display and data logging program designed specifically to operate with Capintec CRC-15 CRC-25 and CRC-55 calibrators.

Readings from the selected calibrator may be saved in a comma separated value file format which can be easily viewed by a spreadsheet such as Excel.

System Requirements

Hardware

A PC capable of running one of the following operating systems with 3.5 MB of free disk space.

Windows XP, Windows Vista, Windows Server 2003/2008, Windows 7, Windows 8.

Connections

CRC-25 and CRC-55 require a USB port connection on the PC.
(The USB cable required is a USB-A Male / USB-B Male).

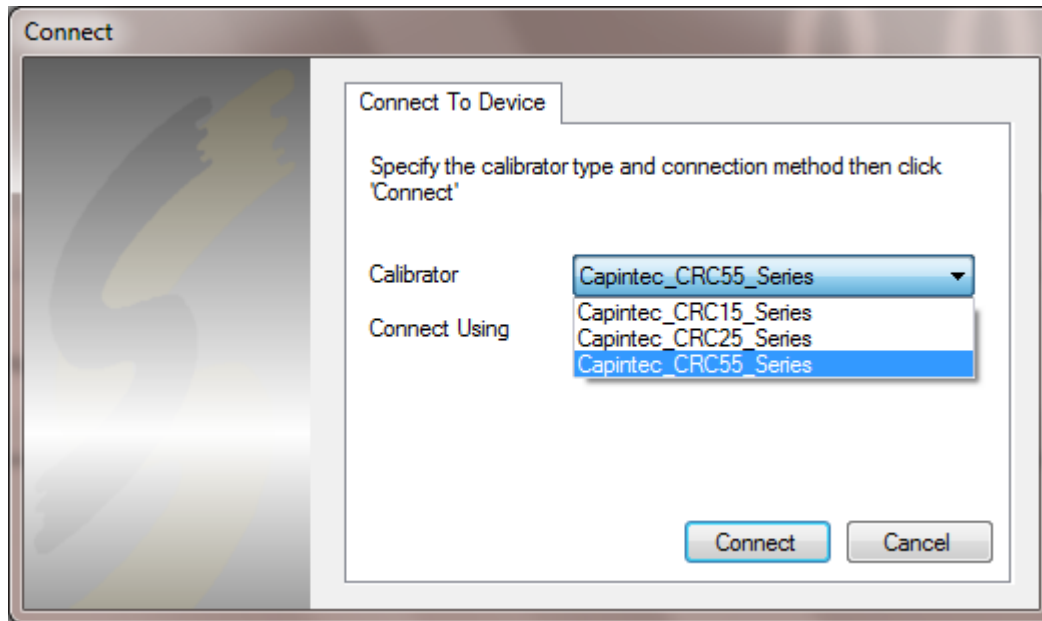
CRC-15 requires an RS232 port (or an RS232 to USB adapter).
(The serial cable required is a DB9 Male to DB9 Female).

Installation

Click the [Calibrator Utility 3.1 \(with .Net 3.5\)](#) installer and follow the instructions.

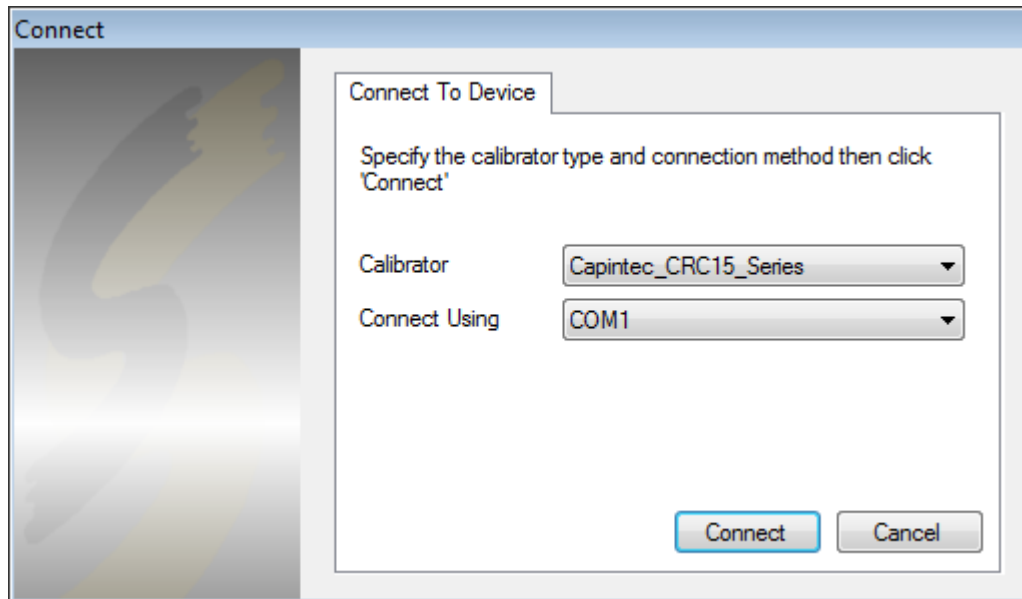
Selecting/Changing the Calibrator Type

The connect dialog permits selection of either the CRC15, CRC-25 or CRC-55 series.

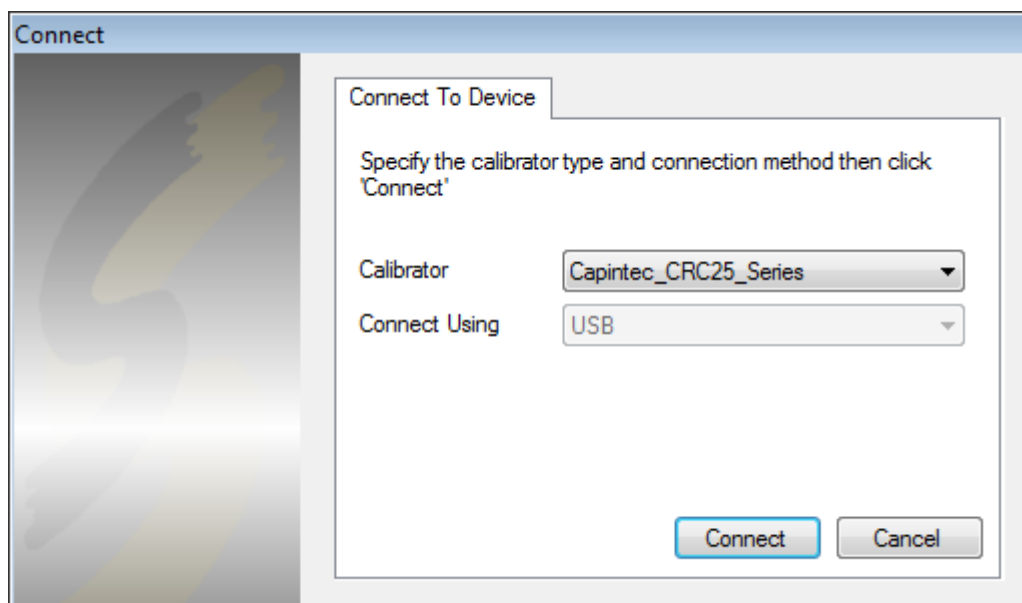


The CRC-25 and CRC-55 calibrators actually use the same protocol and do not uniquely identify themselves to the CalUtility software (the product Identity sent from the calibrator is the same). Please make sure that the correct selection has been made so that the screen and log files will be correctly labelled with the calibrator type. Also ensure that only one calibrator is connected to the computer so that there is no confusion.

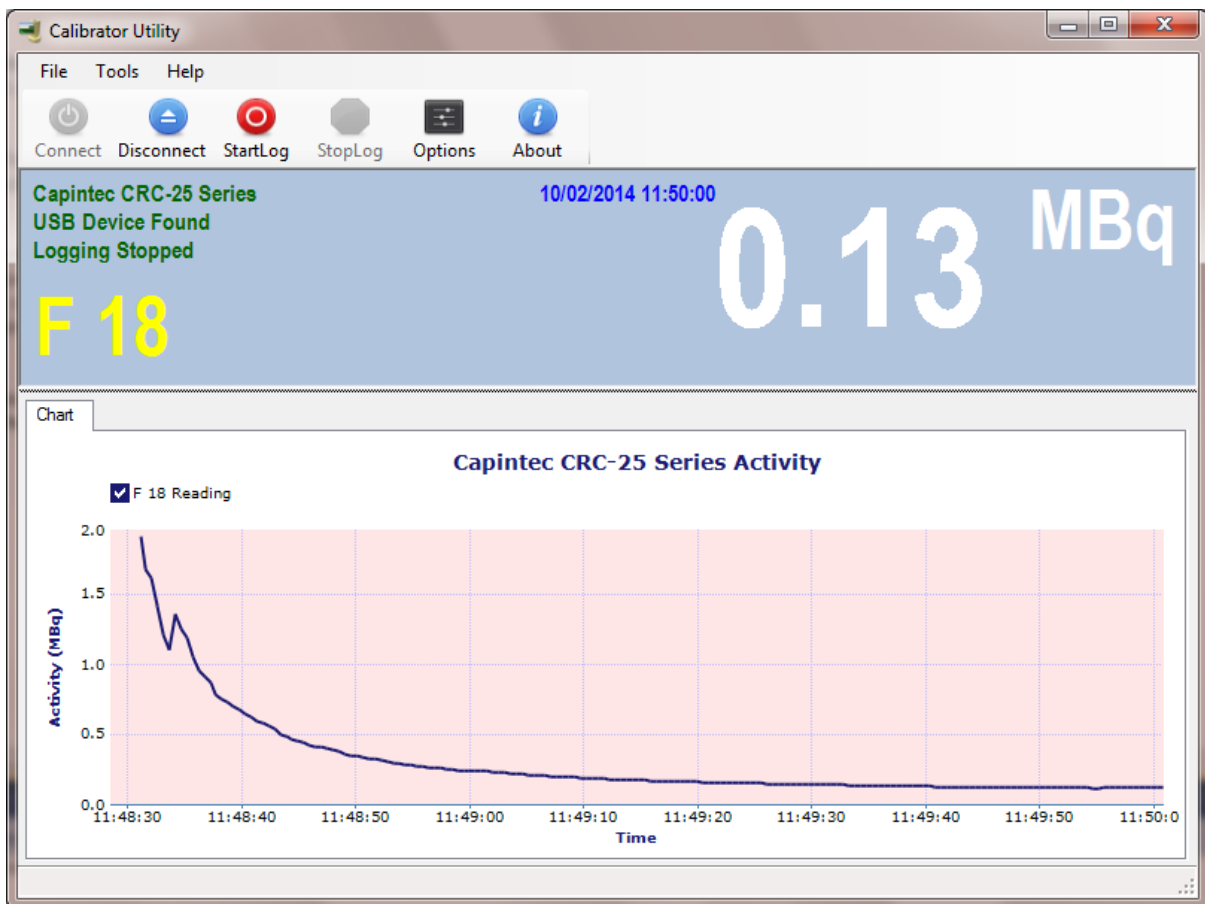
If Capintec_CRC15_Series is selected then connection is via serial cable from the CRC15 RS232 port.



If Capintec_CRC25_Series or Capintec_CRC55_Series are selected then connection is via USB cable from the calibrator connector marked PC.

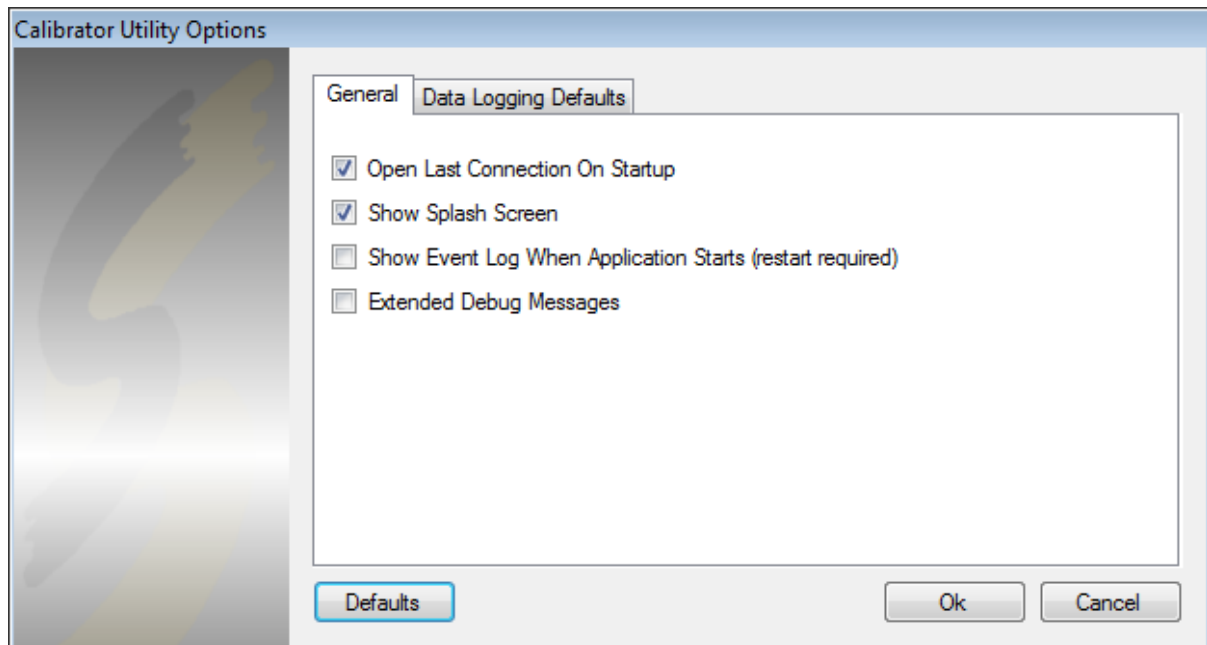


Click Connect.

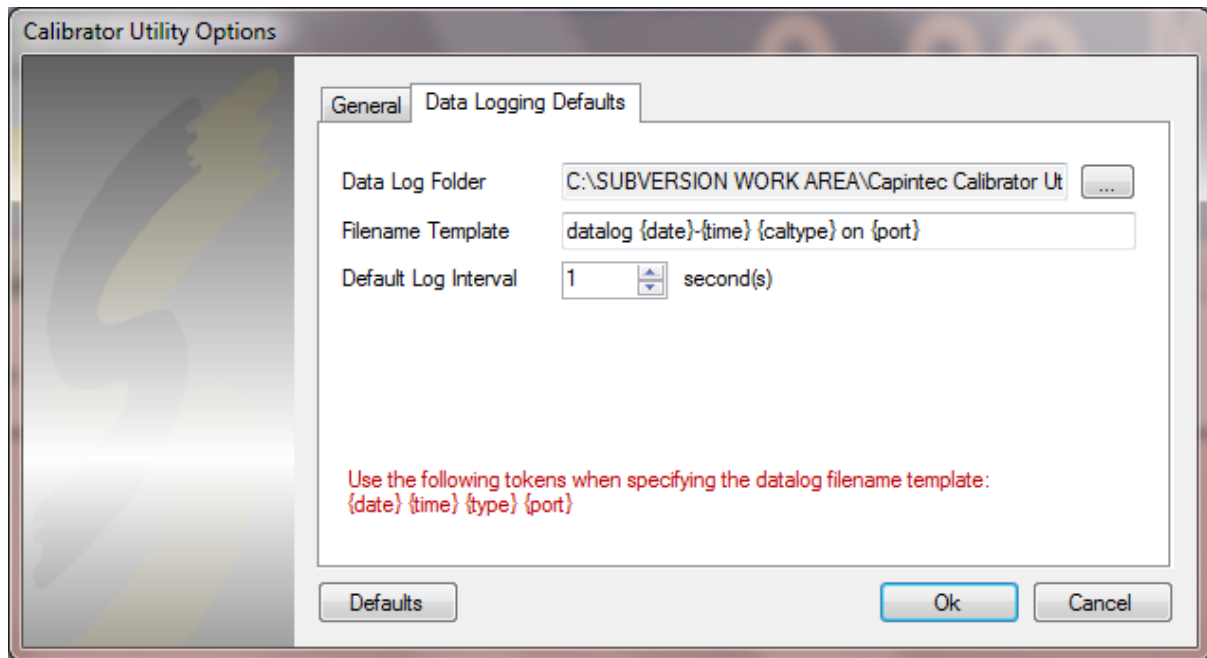


Calibrator Utility Options

Click options to set General and Data Logging options.



The options: "Show event log when application starts" and "Extended debug messages" are unnecessary for normal operation but may be useful if experiencing a communication problem with the calibrator.



Choose a data log folder to identify where you wish the data log file to be saved.

The filename template describes how you would like each data log file to be labelled. Simply enter any text or tokens described in red to label the file.

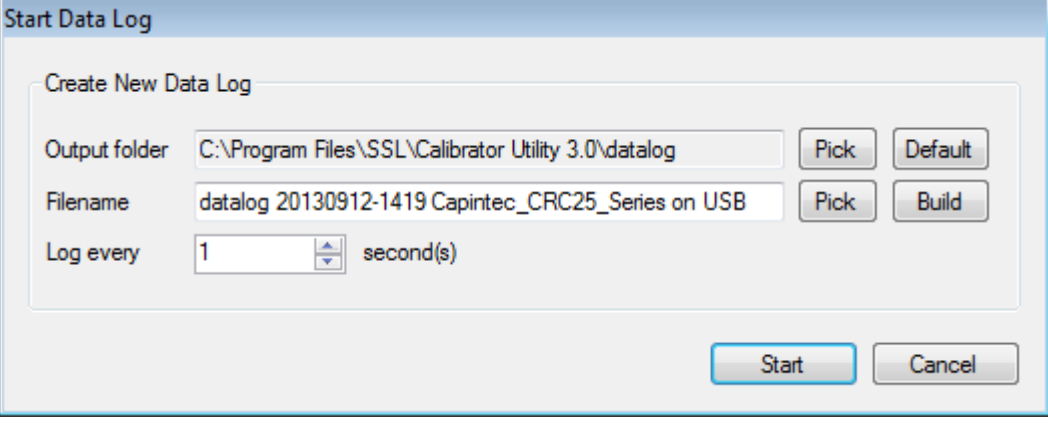
As an example the default above might label the data log file
“datalog 20140205-1223 Capintec_CRC55_Series on USB “

The log interval sets the number of seconds between each entry made in the data log file.

Note that readings are continuously obtained from the calibrator to obtain the maximum, minimum and average reading during the log interval, before adding the entry to the log (see Data log file format).

Data Logging

Click StartLog on the main menu to prepare for data logging.
You can change any of the settings before clicking Start.



The image shows a 'Start Data Log' dialog box with a title bar. Inside, there is a section titled 'Create New Data Log'. This section contains three rows of settings. The first row is 'Output folder' with a text box containing 'C:\Program Files\SSL\Calibrator Utility 3.0\datalog', a 'Pick' button, and a 'Default' button. The second row is 'Filename' with a text box containing 'datalog 20130912-1419 Capintec_CRC25_Series on USB', a 'Pick' button, and a 'Build' button. The third row is 'Log every' with a spin box set to '1', a 'second(s)' label, and up/down arrow buttons. At the bottom right of the dialog are 'Start' and 'Cancel' buttons.

Start Data Log			
Create New Data Log			
Output folder	C:\Program Files\SSL\Calibrator Utility 3.0\datalog	Pick	Default
Filename	datalog 20130912-1419 Capintec_CRC25_Series on USB	Pick	Build
Log every	1	second(s)	
		Start	Cancel

Data log file format

Readings are saved in a comma separated value text file which can be imported into excel etc.

Sorry for the readings!

Calibrator DataLog File
Calibrator Utility v3.0
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date	time	calibrator	port	nuclide	units	last	mean	min	max	count
12/9/2013	14:21:22	Capintec_CRC25_Series	USB	F 18	kBq	-30	-30	-30	-30	2
12/9/2013	14:21:23	Capintec_CRC25_Series	USB	F 18	kBq	-30	-30	-30	-30	2
12/9/2013	14:21:24	Capintec_CRC25_Series	USB	F 18	kBq	-30	-30	-30	-30	2
12/9/2013	14:21:26	Capintec_CRC25_Series	USB	F 18	kBq	-30	-30	-30	-30	2

Column Definitions

Last

This is the last reading received from the calibrator before being saved to the log file.

Mean

The total counts received during the period divided by the number of readings during the period (as recorded in the count column).

Min

The lowest reading received during the log period.

Max

The highest reading received during the log period.

Count

The number of readings received from the calibrator during the log period.