

# **Radionuclide Calibrator Users' Forum 5<sup>th</sup> Meeting**

## **NPL-CRC Linearity Software**

25<sup>th</sup> June 2008

John Keightley

National Physical Laboratory

- 4<sup>th</sup> RCUF : Demo of NPL-CRC Linearity software
- Now available for release (beta version)
  - Free download
  - [www.npl.co.uk/rcuf](http://www.npl.co.uk/rcuf)
  - Link is under the minutes of the 5<sup>th</sup> RCUF meeting
- Cabling requirements
- Limitations

# 9-Pin Null-Modem Cable (Build your own)

NPL-CRC 9-Way Female

PC 9-Way Female

2-----	TX	-----3
3-----	RX	-----2
5-----	RGND	-----5
4-----,	DTR	,-----4
6-----'	DSR	'-----6
7-----'	RTS	,-----7
8-----'	CTS	'-----8

# 9-Pin Null-Modem Cable (Maplin)

The electronics specialist  
**maplin**



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## Serial Null Modem 9-Pin Female to 9-Pin Female



## Main Items

Description	Code	Stock	Price (£)	QTY
 Null 9(F)-9(F) 3m	L71BT	4	9.99	<input type="text" value="1"/>

# 9-Pin Null-Modem Cable (Equanet)

Equanet

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### Features...

- Type - Null modem cable
- Length - 3 m
- Connector(s) - 1 x 9 pin D-Sub (DB-9) - female
- Connector(s) (Other Side) - 1 x 9 pin D-Sub (DB-9) - female

### Useful Links

- [Email colleague](#)
- [Print](#)



**BELKIN.**

## Belkin Pro Series Serial Direct Cable 3m

Product Code: BELPS053  
Manufacturers #: F3B207B10  
Availability: 33 in stock

**£2.99** ex VAT

Quantity:

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Tired of the makeshift home-office, swapping diskettes to pass information. With the Belkin Direct Cable Connection you can instantly share files, folders, modems and more. Belkin makes life easy. Pro Series Serial Direct cable connection connects two computers with DB9 male ports to share files, folders, and peripherals (e-mail, modems and CD-ROM drives). Requires only Windows 95 preinstalled drivers to make

# Download the Software

Download link for your file "NPL\_CRC.zip" on the NPL  
Website is: (80 MB)

[www.npl.co.uk/rcuf](http://www.npl.co.uk/rcuf)

- Data saved in “CSV” format :
  - “Comma Separated Variable” rows with:
    - Nuclide, Range, Value,  $\Delta t = t - t_0$ , Date, Time
  - Range values are as follows:
    - 1      micro Ci
    - 2      milli Ci
    - 3      Ci
    - 4      MBq
    - 5      GBq

# Limitations

- Check that CRC-15R is capable of serial communication
  - At start-up : an asterix beside the revision number means serial communications disabled
  - i.e: Rev 1.03\*
    - Will require EEPROM flashing

# Future Work

- Expand range of Radionuclide Calibrators for which software is available
- Investigate use of Wireless Serial Communication for “Clean Room” applications:
  - PDA
  - Bluetooth Communication
  - Does anyone have some example software/information etc ... for other type of RC ?
  - I want to avoid re-inventing the wheel !