

USB Installation and Operation

Safety

To ensure that the protection provided by this equipment is not impaired, do not use or install this equipment in any manner other than that specified in this document.

	This symbol, if noted on the instrument, references the instruction manual for operation and/or safety information.
	Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user. Note: For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment, producer-supplied electrical accessories, and all auxiliary items for proper disposal.

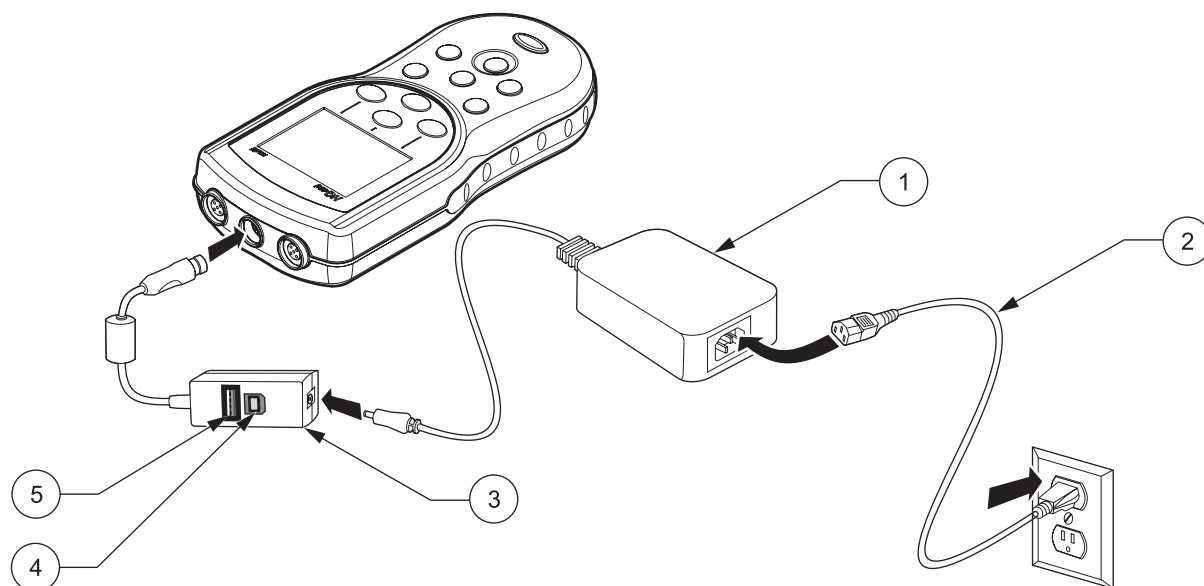


Figure 1 Components for HQ Meter Software Upgrade

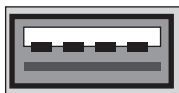
1 AC-DC Power Supply	4 Personal Computer Port
2 Power Cord	5 Flash Upgrade Port
3 USB/DC Power Adapter	

Transferring data

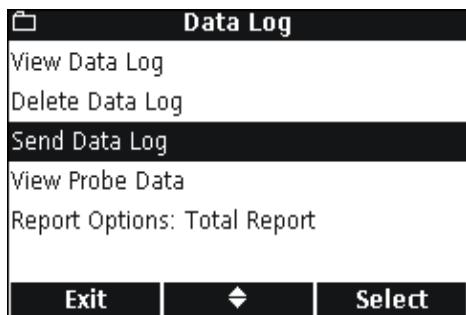
Note: If the response time is slow when transferring data, reformat the flash memory stick or computer to use the file allocation table (FAT 16 or 32) format.

Data can be transferred to a printer, flash memory stick or printer using the USB connector on the HQd USB/DC adapter. The meter must be powered up after being connected to AC power for data transfer to occur.

Sending data to a printer or flash memory stick



USB - Peripheral



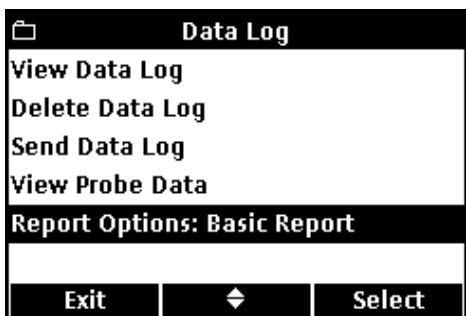
1. Connect the HQd meter to an electrical outlet using the USB/DC power adapter.
2. Connect the printer cable or flash memory stick to the peripheral USB connector on the USB/DC power adapter. Turn the meter on.
3. Press the **DATA LOG** key on the HQd meter.
4. Use the **UP** and **DOWN** keys to highlight **Send Data Log**. Press the **GREEN/RIGHT** key under Select.
5. The display will show "Sending Data" to indicate that the data are being stored to the flash memory stick or sent to the printer. All measurement data, calibration data and check standard results will be printed at the level of detail selected under Report Options.

Important Note: The HQd meter can connect directly to a USB compatible 72-column page printer.

Note: In addition to data, all user-created methods present on a meter are copied to the flash memory stick. When the memory stick is used by another meter, these methods are copied to the new meter. See *Archiving and Exchanging Methods* in the HQ40 Series Portable Meters user manual.

Note: Do not unplug the flash memory stick or the printer cable while the "Sending Data" screen is displayed, or the meter may lock up.

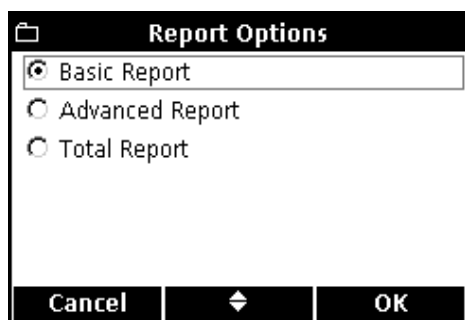
Selecting report options



The data log can be printed at three levels of detail: Basic Report, Advanced Report or Total Report. The report option displayed on the data log screen indicates the level of detail currently selected.

To select a different report option:

1. Press the **DATA LOG** key.
2. Use the **UP** and **DOWN** keys to highlight **Report Options**. Press the **GREEN/RIGHT** key under Select.

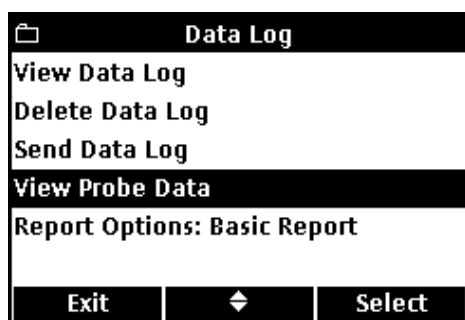


3. Use the **UP** and **DOWN** keys to select the desired report type. Press the **GREEN/RIGHT** key under OK.

Printing calibration data

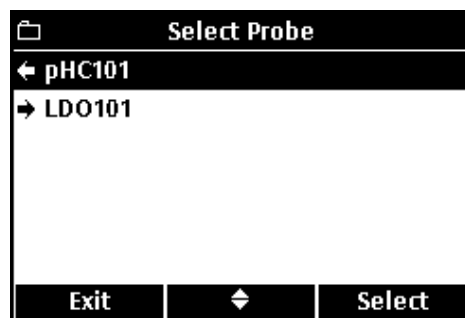
Calibration data are printed as part of the data log, but can also be printed from the stored information in the probe. Printed calibration reports are shown in Viewing Calibration Reports in the *HQd Series Portable Meters* user manual.

To print the calibration data stored in the probe:

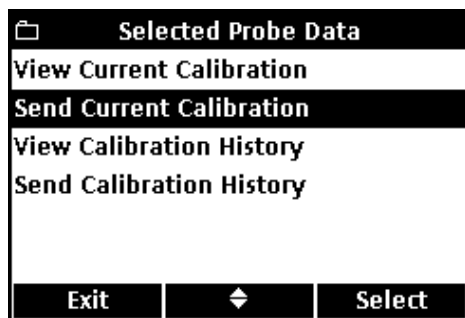


1. Press the **DATA LOG** key.
2. Use the **UP** and **DOWN** keys to highlight **View Probe Data**. Press the **GREEN/RIGHT** key under Select.

Note: A probe must be connected to the meter to use the View Probe Data function.



3. If only one probe is connected, proceed to step 4. If two probes are connected (HQ40d), the connected probes will be displayed. Use the **UP** and **DOWN** keys to highlight the desired probe. Press the **GREEN/RIGHT** key under Select.



4. Use the **UP** and **DOWN** keys to highlight **Send Current Calibration** or **Send Calibration History**:

- **Send Current Calibration:** sends the most recent calibration information.
- **Send Calibration History:** sends all calibration information that is stored in the probe.

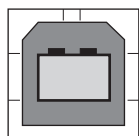
Press the **GREEN/RIGHT** key under Select.



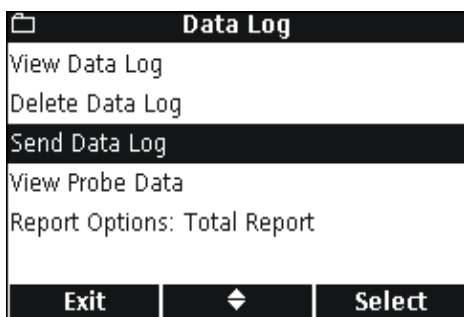
5. The display will show "Sending Data" to indicate the data is being sent to the printer.

Important Note: Do not disconnect the printer cable while the "Sending Data" screen is displayed, or the meter may lock up.

Sending data to a computer



USB - Host



1. Load the HQd PC Application Software supplied with the HQd meter onto a PC.
2. Turn off the meter, connect the HQd meter to an electrical outlet using the USB/DC power adapter and then turn on the meter.
3. Connect a USB cable (Cat. No. 59240-00) to the host USB connector on the USB/DC adapter and to the computer.
4. Open the HQd PC Application Software on the PC. Click the green triangle shown in the menu bar to initiate a connection.
5. Press the **DATA LOG** key on the HQd meter.
6. Use the **UP** and **DOWN** keys to highlight **Send Data Log**. Press the **GREEN/RIGHT** key under Select.

7. The meter display will show "Sending Data". The data will appear in the PC Application Software window. The file is saved in Comma Separated Values (.csv) file format.

Note: For more information on working with CSV files, refer to the Working with Data section of the HQd PC Application Software CD.

For more information on viewing data log reports, see Archiving and Exchanging Methods in the HQ Series Portable Meters user manual (Cat. No. HQ40d18).



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