About this Manual

We've added this manual to the Agilent website in an effort to help you support your product. This manual is the best copy we could find; it may be incomplete or contain dated information. If we find a more recent copy in the future, we will add it to the Agilent website.
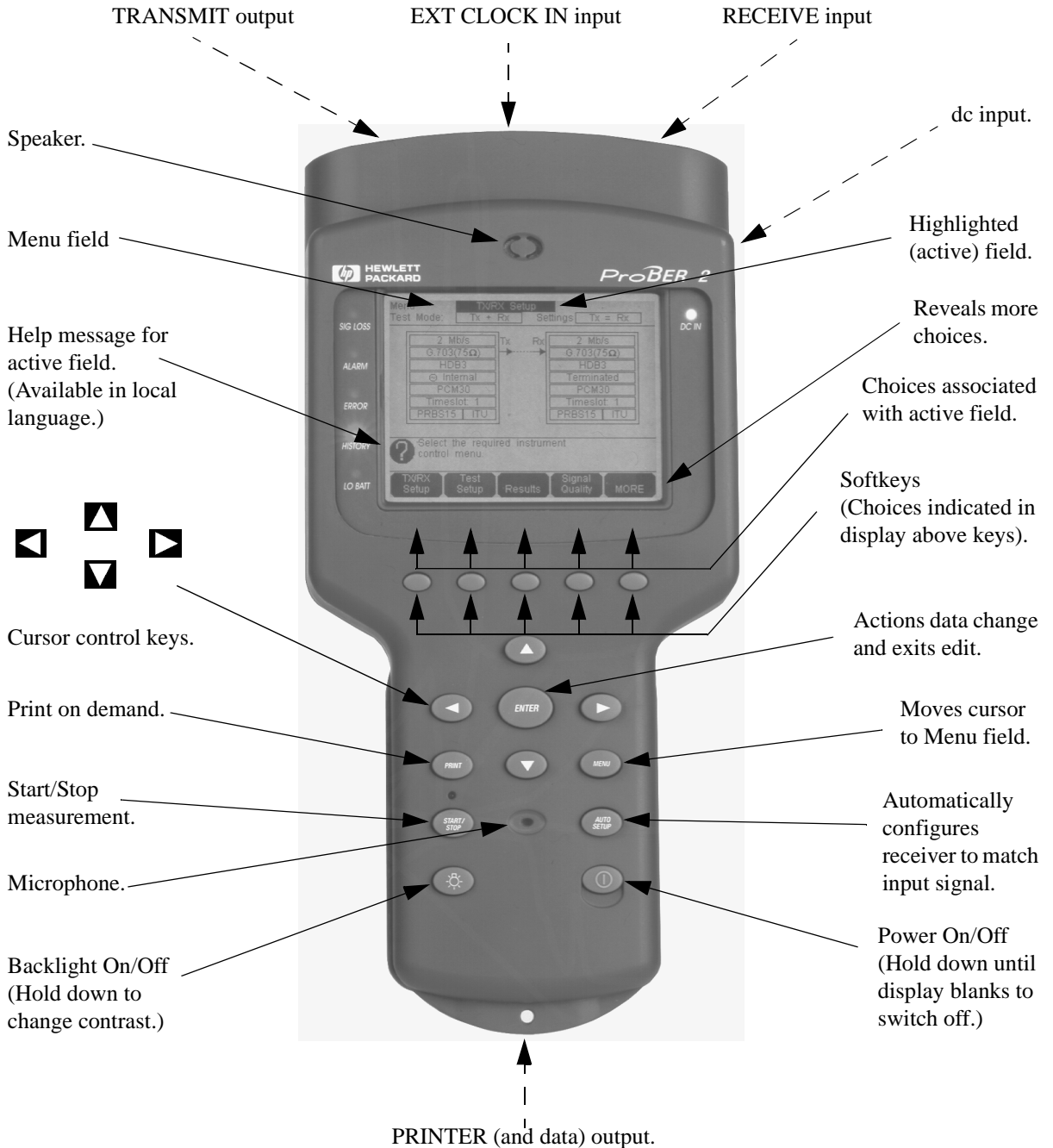
Support for Your Product

Agilent no longer sells or supports this product. Our service centers may be able to perform calibration if no repair parts are needed, but no other support from Agilent is available. You will find any other available product information on the Agilent Test & Measurement website, www.tm.agilent.com.

HP References in this Manual

This manual may contain references to HP or Hewlett-Packard. Please note that Hewlett-Packard's former test and measurement, semiconductor products and chemical analysis businesses are now part of Agilent Technologies. We have made no changes to this manual copy. In other documentation, to reduce potential confusion, the only change to product numbers and names has been in the company name prefix: where a product number/name was HP XXXX the current name/number is now Agilent XXXX. For example, model number HP8648A is now model number Agilent 8648A.

HP ProBER 2 - Getting Started

HEWLETT® PACKARD

TRANSMIT output

EXT CLOCK IN input

RECEIVE input

dc input.

Speaker.

Menu field

Highlighted (active) field.

Reveals more choices.

HEWLETT PACKARD

ProBER 2

SIG LOSS

ALARM

ERROR

HISTORY

LO BATT

DC IN

Menu

TX/RX Setup

Test Mode: Tx + Rx   Settings: Tx = Rx

2 Mb/s   Tx   Rx   2 Mb/s

G.703(75Ω)   G.703(75Ω)

HDB3   HDB3

Internal   Terminated

PCM30   PCM30

Timeslot: 1   Timeslot: 1

PRBS15 | ITU   PRBS15 | ITU

Help message for active field. (Available in local language.)

Select the required instrument control menu.

TX/RX Setup   Test Setup   Results   Signal Quality   MORE

Choices associated with active field.

Softkeys (Choices indicated in display above keys).

Cursor control keys.

Actions data change and exits edit.

ENTER

Print on demand.

PRINT

MENU

Moves cursor to Menu field.

Start/Stop measurement.

START/STOP

AUTO SETUP

Automatically configures receiver to match input signal.

Microphone.

Power On/Off (Hold down until display blanks to switch off.)

Backlight On/Off (Hold down to change contrast.)

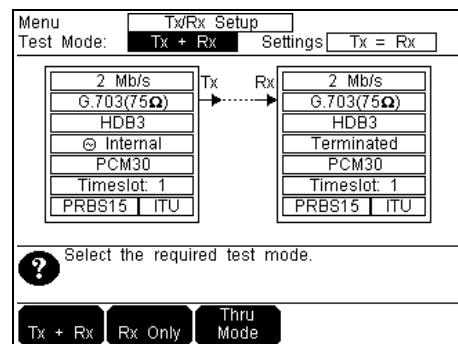PRINTER (and data) output.

Initial Switch-on

HP ProBER 2 is supplied **ready to use** straight from the box. There is **no need to charge the battery**. Use the instrument until the battery is completely exhausted before giving it its first charge.

When you first switch on HP ProBER 2, you may need to **adjust the display contrast** by holding down the display backlight key $\boxed{\cdot\!\!\!\!\!\!\!\!\!\!\!}$. This cycles the contrast through its setting range. A quick press of the same key toggles the backlight on and off.

Navigating around the displays

Before using HP ProBER 2, you'll need to know how to select and change settings. Here's how to do that.
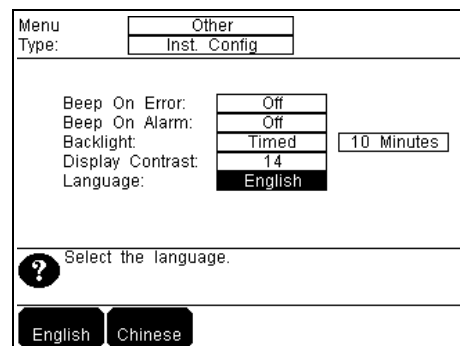
1. Move within the display area by using the cursor control keys $\blacktriangledown$, $\blacktriangle$, $\blacktriangleleft$ and $\blacktriangleright$. Return the cursor to the top of the display quickly by pressing $\boxed{\text{MENU}}$.
2. In each of the display areas, the field that can be changed (the active field) is marked by a "highlighted cursor". In the example shown here, it's $\boxed{\text{Tx + Rx}}$.
3. Alternative selections/modes for the active field are accessed using the softkeys below the display.
4. When a field has more than five choices, a softkey labelled $\boxed{\text{More}}$ is provided. Press it to reveal more choices.

Choosing your HELP Language

The HELP messages displayed on the screen can be provided in English and one other language. The other language depends on which HP ProBER 2 option you have ordered.
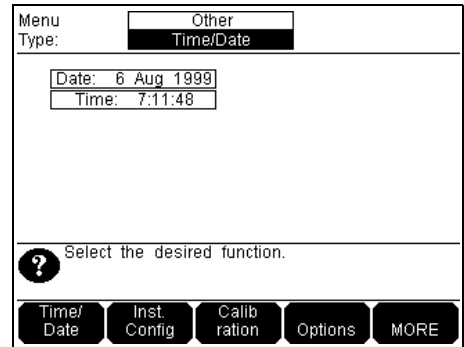
1. Choose $\boxed{\text{MENU}}$, $\boxed{\text{More}}$, $\boxed{\text{Other}}$, $\boxed{\blacktriangledown}$, $\boxed{\text{More}}$ then $\boxed{\text{Inst. Config}}$ to obtain the local language display, as shown.
2. Move the cursor down to **Language** and choose the language required from the menu.
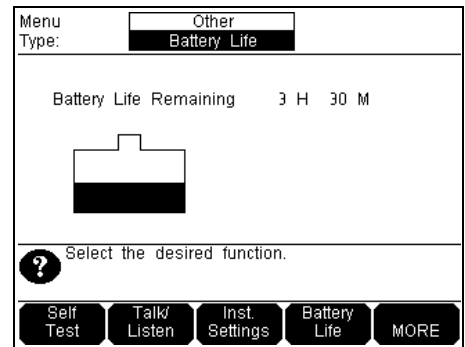
Setting the Date and Time

When results are recorded, it is useful to have certain events time-stamped, for example, Alarms, Error Seconds, etc. Here's how to set the date and clock:

1. Choose **MENU**, **More**, **Other**, **▽**, **More**, then **Time/Date** to obtain the Time and Date display, as shown.
2. Move the cursor to **Date** and enter the correct date using **EDIT**, **△**, **▽**, **◁** and **▷**. Then press **ENTER** to action your edits or press **Cancel** to escape.
3. Move the cursor to **Time** and enter the correct time, as above.

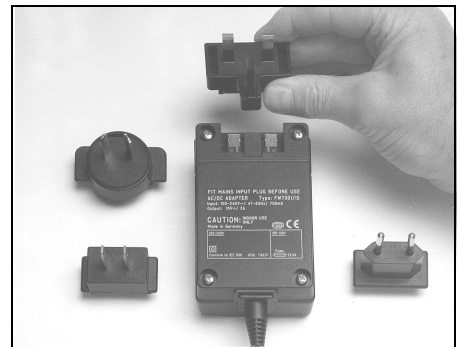## Taking Care of your Battery

HP ProBER 2 uses a high-performance Nickel Metal Hydride (NMH) rechargeable battery pack that may not be fully charged when you receive the instrument. Whatever the state of charge, use HP ProBER 2 until the battery is completely exhausted before being given its first charge. This ensures better accuracy from the battery charge indicator. Maximum accuracy is obtained after the battery has been fully discharged and recharged twice. Access the indicator by choosing **MENU**, **MORE**, **Other**, **▽** **Battery Life**. It takes a few minutes for the indicator to stabilize.

Charging your Battery

To recharge the battery, first fit the appropriate adapter (supplied) to the charger, as shown. Normally the battery will be fully charged after 5 hours.
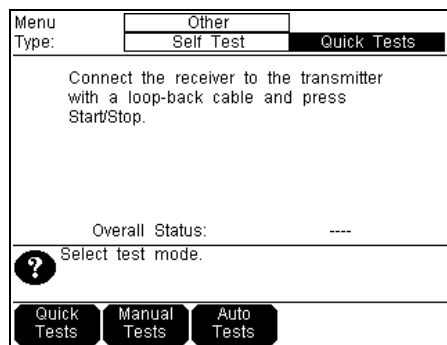
Note that HP ProBER 2 can be used while the battery is charging.

Verify Instrument Operation

Before making measurements, run a Self Test to check that HP ProBER 2 is operating correctly.

1. Choose **MENU**, **More**, **Other**, ▼, **Selftest**, ▶, **Quick Tests**.
2. Connect the TRANSMIT 75Ω port to the RECEIVE 75Ω port using the supplied cable.
3. Press **START/STOP** to run the self test. After a few seconds an **Overall Status** PASS or FAIL message will be displayed.
4. If the FAIL message is displayed, HP ProBER 2 should be returned to an HP Service Office for repair. For an up to date list of offices, see the HP Website at URL:
http://www.tmo.hp.com/tmo/TMTop/English/index.html

```
Menu              Other
Type:        Self Test        Quick Tests

        Connect the receiver to the transmitter
        with a loop-back cable and press
        Start/Stop.



        Overall Status:              ----
  ?  Select test mode.

   Quick     Manual    Auto
   Tests     Tests     Tests
```

Performing Measurements with HP ProBER 2

You're now ready to perform measurements with HP ProBER 2.

Full details of the measurements and how to perform them are in the User Reference Manual. The basic procedure is:

1. Select the test interface.
2. Set up the measurement parameters.
3. Perform the measurement.
4. Display or store the results.

The chapters in the User Reference Manual are set out in this order.

The Quick Reference Guide is a handy reminder of how to access the various measurements and features of HP ProBER 2.

The Service Manual includes procedures for verifying the performance as well as how to change the battery, should this be necessary.

Enjoy using your HP ProBER 2.