Agilent ProBER 2
Quick Reference Guide

Agilent Technologies

Diagram labels (top section):

- Backlight On/Off (hold down to change contrast).
- Start/Stop measurement.
- Print on demand.
- Cursor control keys.
- Softkeys (Choices indicated in display above keys).
- Help message for active field (Available in local language).
- Menu field.
- Speaker.
- TRANSMIT output.
- EXT CLOCK IN input.
- RECEIVE input.
- dc input.
- Highlighted (active) field.
- Reveals more choices.
- Actions data change and exits edit.
- Moves cursor to Menu field.
- Automatically configures receiver to match input signal.
- Power On/Off (hold down until display blanks to switch off).
- PRINTER (and data) output.
- Microphone.

Introducing ProBER 2

Agilent 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.
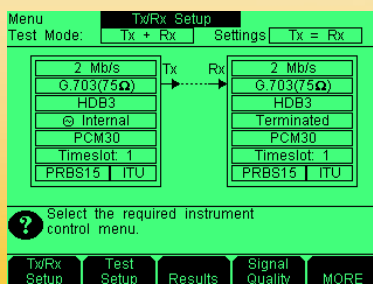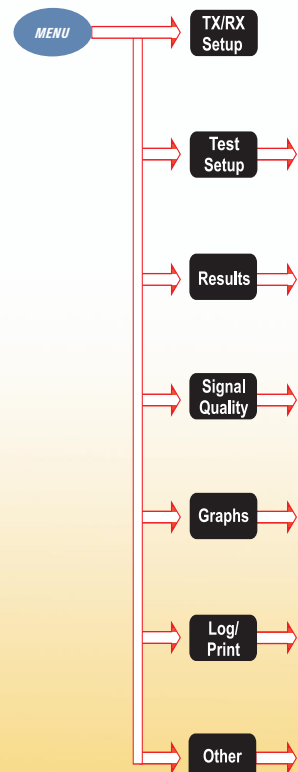
When first switching on ProBER 2, you may need to **adjust the display contrast** by holding down the display backlight key . This cycles the contrast through its setting range. A quick press of the same key toggles the backlight on and off.

Before using ProBER 2, you'll need to know how to **navigate your way around the displays**. Here's how to do that.

Navigating around the displays

1. Move within the display area by using the cursor control keys ▼ , ▲ , ◄ , and ► . Return the cursor to the top of the display by pressing 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 Tx/Rx Setup .

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 MORE is provided. Press to reveal more choices.
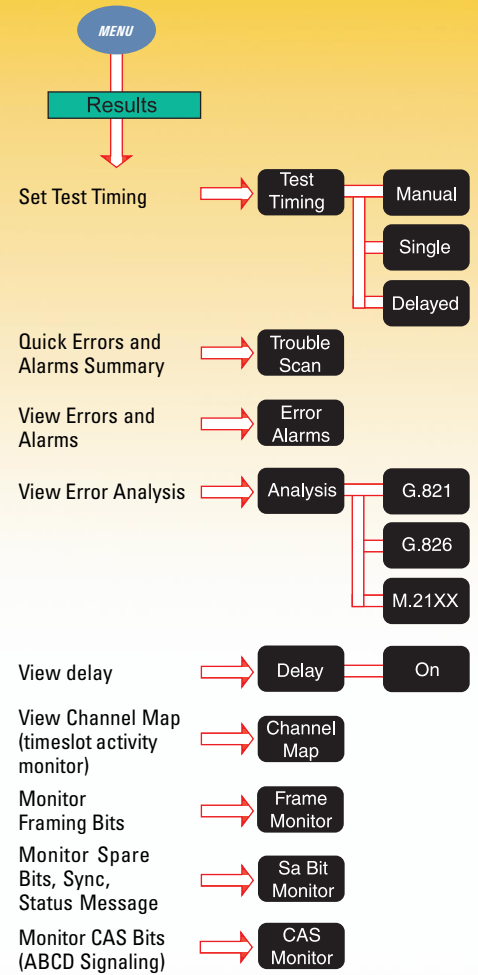
```
Menu            Tx/Rx Setup
Test Mode:    Tx + Rx      Settings   Tx = Rx

        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

    ?   Select the required instrument
        control menu.

   Tx/Rx   Test    Results  Signal   MORE
   Setup   Setup            Quality
```

The control menus

 MENU →
- TX/RX Setup
- Test Setup
- Results
- Signal Quality
- Graphs
- Log/ Print
- Other
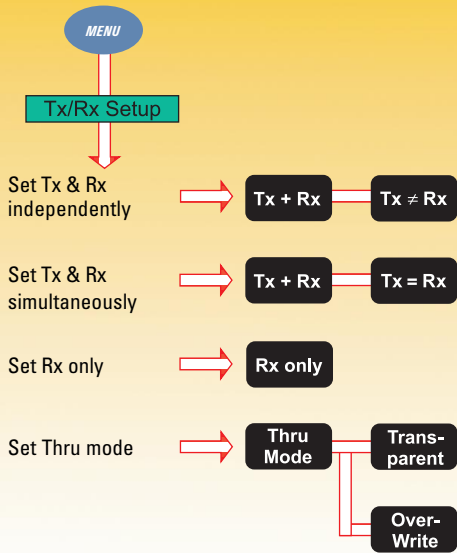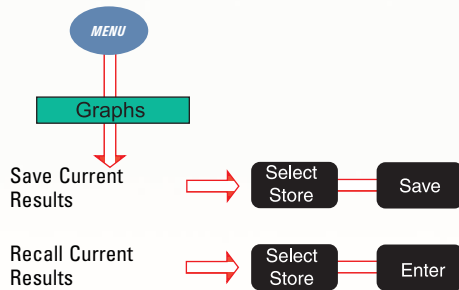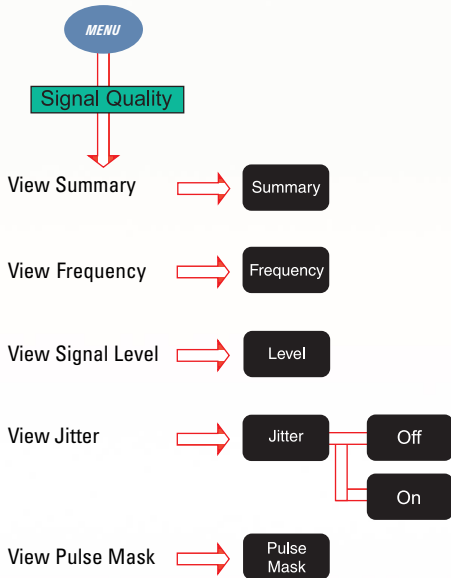
The menus in more detail . . .

The menus in more detail . . . For full details, refer to the User Reference Manual

MENU — Tx/Rx Setup
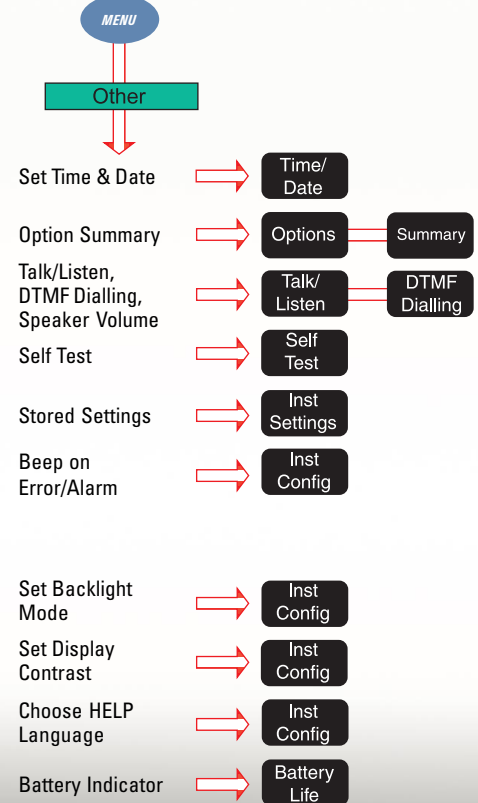
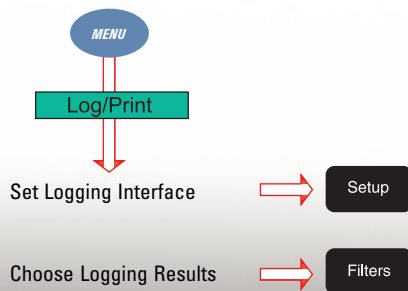| Action	→	Selection
Set Tx & Rx independently	→	Tx + Rx / Tx ≠ Rx
Set Tx & Rx simultaneously	→	Tx + Rx / Tx = Rx
Set Rx only	→	Rx only
Set Thru mode	→	Thru Mode / Trans-parent / Over-Write
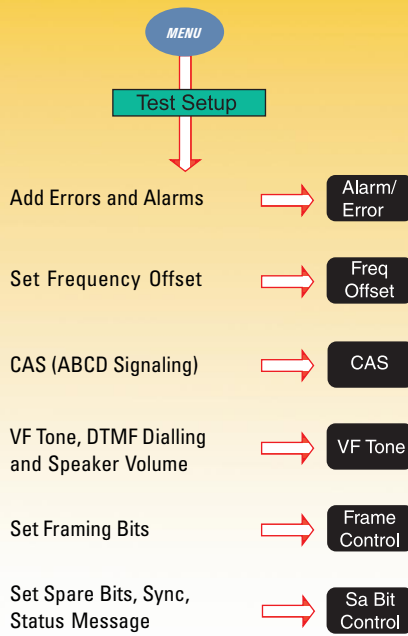
TX/RX Parameters

TX	RX
Line Rate	Line Rate
Line Impedance	Line Impedance
Line Code	Line Code
Clock Source	Termination
Frame Type	Frame Type
Timeslot	Timeslot
Test Pattern	Test Pattern

MENU — Test Setup

Action	→	Selection
Add Errors and Alarms	→	Alarm/Error
Set Frequency Offset	→	Freq Offset
CAS (ABCD Signaling)	→	CAS
VF Tone, DTMF Dialling and Speaker Volume	→	VF Tone
Set Framing Bits	→	Frame Control
Set Spare Bits, Sync, Status Message	→	Sa Bit Control

MENU — Results

Action	→	Selection
Set Test Timing	→	Test Timing / Manual / Single / Delayed
Quick Errors and Alarms Summary	→	Trouble Scan
View Errors and Alarms	→	Error Alarms
View Error Analysis	→	Analysis / G.821 / G.826 / M.21XX
View delay	→	Delay / On
View Channel Map (timeslot activity monitor)	→	Channel Map
Monitor Framing Bits	→	Frame Monitor
Monitor Spare Bits, Sync, Status Message	→	Sa Bit Monitor
Monitor CAS Bits (ABCD Signaling)	→	CAS Monitor

MENU — Signal Quality

Action	→	Selection
View Summary	→	Summary
View Frequency	→	Frequency
View Signal Level	→	Level
View Jitter	→	Jitter / Off / On
View Pulse Mask	→	Pulse Mask

MENU — Graphs

Action	→	Selection
Save Current Results	→	Select Store / Save
Recall Current Results	→	Select Store / Enter

Graphs (Display any two)

BIT ERROR COUNT
CODE ERROR COUNT
FRAME ERROR COUNT
CRC4 ERROR COUNT
E-BIT COUNT
JITTER HIT COUNT
ALARMS

MENU — Log/Print

Action	→	Selection
Set Logging Interface	→	Setup
Choose Logging Results	→	Filters

MENU — Other

Action	→	Selection
Set Time & Date	→	Time/Date
Option Summary	→	Options / Summary
Talk/Listen, DTMF Dialling, Speaker Volume	→	Talk/Listen / DTMF Dialling
Self Test	→	Self Test
Stored Settings	→	Inst Settings
Beep on Error/Alarm	→	Inst Config
Set Backlight Mode	→	Inst Config
Set Display Contrast	→	Inst Config
Choose HELP Language	→	Inst Config
Battery Indicator	→	Battery Life

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