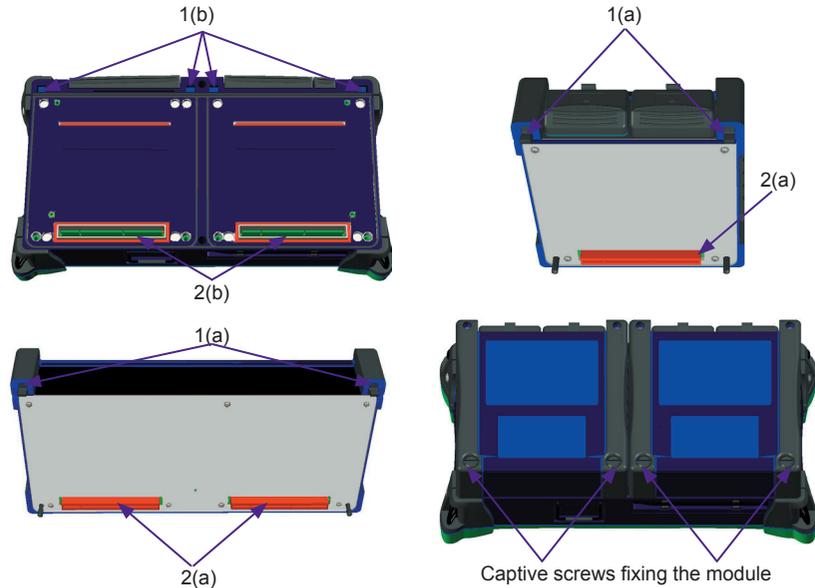## INSTALLING AND REMOVING A MODULE IN THE 4000 PLATFORM

The 4000 Platform must be switched off and, if operating on mains, its supply cable must be unplugged.

Installing a module

1 Turn the instrument face down on the work surface

2 Set the 2 notches on the module part (1a) into the two holes on the Base (1b).

3 Make flush the 2 connections (2a & 2b), on module and base.

4 Once positioned, fix the module to the base screwing the 2 screws fixing the receptacle

Removing a module

1 Unscrew the two captive fixing screws of the plug-in completely (up to the stop).

2 Carefully slide the module out of its slot.

BATTERY MANAGEMENT

The battery supplied with the 4000 Platform must be fully charged before use.

The instructions below apply to the removable **Lithium Ion (LiIon)** battery inside the battery compartment.

Access to the battery
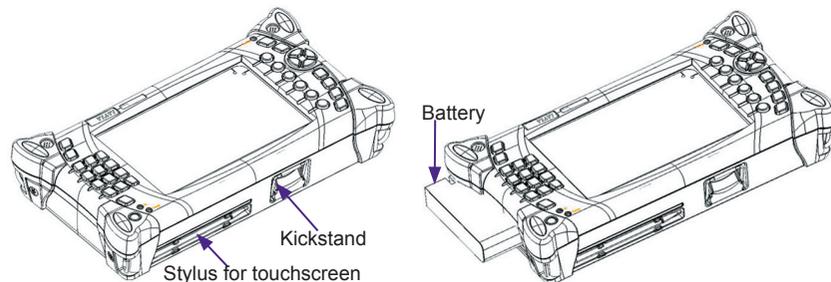
1 Switch off the 4000 Platform and disconnect the mains supply.

2 Loosen the screws at the left of the instrument using a Philips head screwdriver

3 Remove the cover of the battery, pulling with the help of the screws.

4 The battery can then be removed, taking care not to damage the connector into which it is plugged.

When re-seating the battery, make sure that its connector engages correctly with the 4000 Platform. Then fit the cover back and lock the screws.

Charging the battery

Use only the mains adapter supplied with the MTS/T-BERD 4000. The adapter for some other electronic device may appear to be identical, but entails a risk of damage to the MTS/T-BERD 4000.

Connecting the mains adapter

At the top of the MTS/T-BERD 4000 , lift up the power supply socket protector and plug in the mains adapter.

Connect the adapter to the mains. The On indicator lamp starts blinking in green.

Charging

If the instrument is fitted with a battery, on connection to the mains:

- if the user does not press **On** within 20 seconds, the battery will go on to charge. In this case, the **Charge** indicator will be lit in red.

- if the user presses the **Oɴ** button, the instrument starts up and the battery will be charged during use.

Once the battery is fully charged, the **Charge** indicator lamp is lit in solid green.

It is essential to wait until charging is complete to ensure maximum independent operating time, which may otherwise be considerably reduced
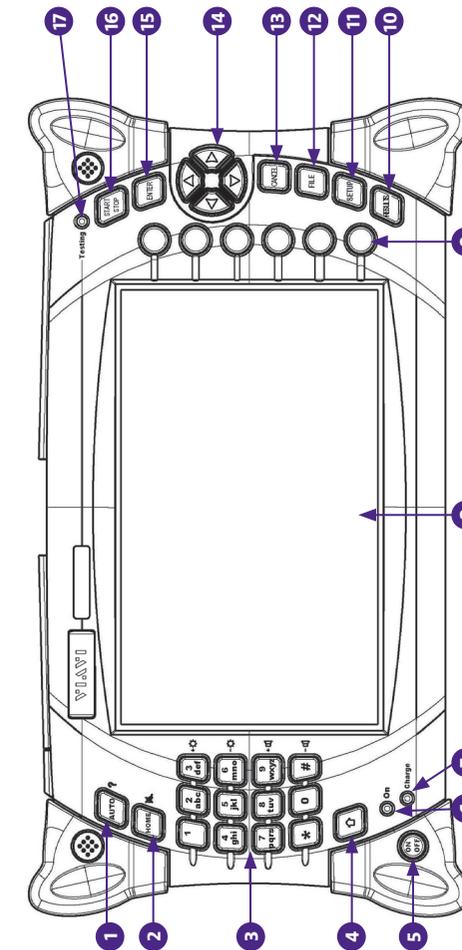
TECHNICAL ASSISTANCE

If you require technical assistance, call 1-844-GO-VIAVI. For the latest TAC information, go to http://www.viavisolutions.com/en/services-and-support/support/technical-assistance.

4000 PLATFORM
GETTING STARTED MANUAL

USER INTERFACE

The 4000 Platform includes the controls and display needed for measurement analysis

The Print function is available by pressing simultaneously the left and right direction keys.

14. Direction keys
Move the cursors or modify zoom on results pages; scroll through the menu in setup pages

15. Enter
Validate an action

16. Start / Stop
Start / Stop a measurement

17. Testing indicator
Red when a measurement is in progress

11. Setup
Calls up the measurement configuration menu. Depends on the active function.

12. File
Calls up the file and directory management menu, used to store files, choose a storage media ...

13. Cancel
Deselect a function or escape a menu

10. Results
Calls up the results page & is used to analyze results

7. Charge Indicator
Lit in red when battery is charging; in green when battery is fully charged

8. TFT Color screen
This screen can be touch screen on option

9. Menu keys
Different according to the display

3. Numeric keypad
Enter a numerical value or shortcut to access a function

4. SHIFT
Used in combination with another key as shortcut

5. On/Off
Start / Stop the 4000 Platform

6. On Indicator
Lit in fix or blinking green

1. Auto:
Call the Script Function

2. Home:
Give access to
- the configuration menus of the instrument (choice of module(s) used).
- the configuration menus of the system (screen, date, language, print-out, etc.).
Press **System Settings** to configure the 4000 Platform

Laser safety

The provisions contained in two standards define the safety procedures to be observed both by users and by manufacturers when utilizing laser products:

- EN 60825-1: 2001 - Safety of laser products – Part 1: Classification of products, requirements and user guidelines.

- FDA 21 CFR § 1040.10 - Performance standards for light-emitting products - Laser products.

Due to the range of possible wavelengths, power values and injection characteristics of a laser beam, the risks inherent in its usage vary. The laser classes form groups representing different safety thresholds.

- VFL option: Laser Class 2.

Due to the reduced dimensions of the optical modules, it is not possible to attach the required warning labels to them. In line with the provisions of Article 5.1 of the EN 60825-1 standard, the laser class identification labels are shown below:

Ref. standard	EN 60825-1, Edition 1.2, 2001-08	FDA21CFR§1040.10
Class 2	LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT	CAUTION LASER RADIATION - DO NOT STARE INTO BEAM CLASS II LASER PRODUCT

The user must take the necessary precautions concerning the optical outputs of the instrument and follow the manufacturer's instructions.

Measurements on optical fibers are difficult to execute and the precision of the results obtained depends largely on the precautions taken by the user.

## AC/DC power supply safety

In conformance with the recommendations of standard EN 61010, the instrument should be operated within the manufacturer's guidelines. Failure to do so may compromise the protection offered by the instruments design.

Do not use any mains adaptor or battery other than those supplied with the instrument, or supplied by Viavi as an option for this instrument.

The 4000 Platform uses a Lithium ion (LiIon) rechargeable battery and a lithium coin-cell. This is a long-life battery, and it's possible that you will never need to replace it. However, should you need to replace it, refer to your system documentation for instructions.

Do not dispose of the battery/coin-cell along with household waste. Contact your local waste disposal agency for the address of the nearest battery/ coin-cell deposit site.
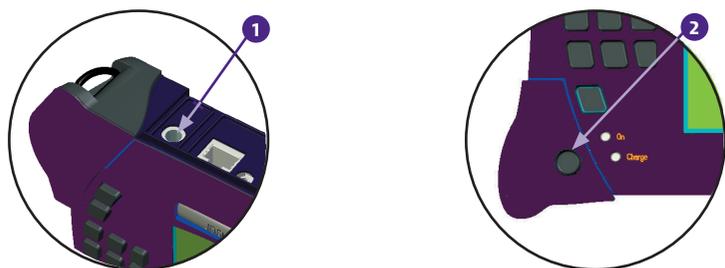
Switching on the 4000 Platform

1 If the Platform is to be used on mains, first plug the mains adapters into the 4000 Platform.

The On indicator blinks in green

2 Press the ON/OFF key, whether the Platform is working on mains or on battery.

The On indicator changes from blinking to solid green.

The instrument is ready to be used once the Home page or the result page of the activated function at the previous start is displayed.
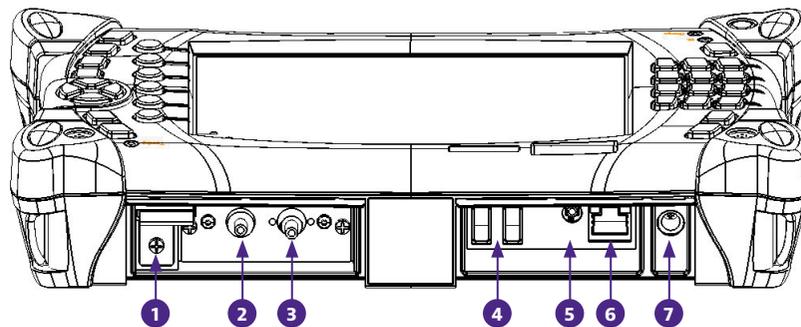
Switching off the 4000 Platform

To switch off the instrument, press the ON/OFF key.

Wait for the On indicator to blink in green before disconnecting the mains.

It is possible to switch over from battery to mains operation, or vice versa, without loss of data.

The upper panel contains, from left to right, the following elements (see example below):

1 The internal memory extension, optional and unreachable by the user

2 The power meter input

3 VFL, the corresponding output (red light)

4 USB connectors for printer, mouse, keyboard, USB memory stick

5 The headset jack

6 The RJ 45 connector for the Ethernet interface,

7 The connection socket for the mains adapter providing the 15V power supply and used to charge the battery

When the 4000 Base Unit is to be used for the first time, or before a measurement campaign is started, the unit parameters must be configured.

To call up this configuration menu, press HOME, then the menu key System Settings.

|	
1 SCREEN	Allows configuration of the display: backlight, contrast, screen saver…
2 I/O INTERFACE	Allows configuration of the communication interfaces between the 4000 Platform and a PC
3 COUNTRY	Allows configuration of the language to be used and the date / time
4 AUDIO	Allows the activation of the Hands-free or Headset function and to adjust the sound level for the function selected
5 UTILITY	Allows configuration of the options: VFL, automatic shutdown and Home selection. It also allows the IP address for upgrading via the network to be specified.
6 PRINTER	Allows configuration of the printing function
TOUCH SCREEN	This button allows the touch screen to be calibrated, when the option is available on the 4000 Platform
FACTORY DEFAULT	This button allows the system to be configured with the original parameters set by default in the factory.

The display is divided into 3 zones:

A. UPPER BANNER

Display different icons according to the commands activated. It can also be different according to the release software installed.

System Settings	Active application		VNC icon
	Data saving in progress		USB key icon
	Print icon	80%	Battery & Charge level icons
	VFL icon	10:52 06/11/2015	Current date & time
	Web icon		PDF icon

When the 4000 Platform screen is exported on a remote PC, via a VNC window, click with the mouse on the upper banner on the PC screen to display a virtual control buttons bar for a few seconds.

Print	Home	File	Setup	Results	Start/Stop	Auto
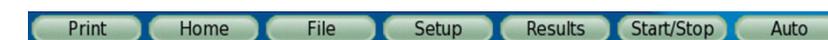
Click on one of the buttons of this bar to get exactly the same result as when using the buttons on the front panel of the Platform.

B. CENTRAL ZONE

Display the configuration or the results of measurements. The display depends on the release software installed.

C. FUNCTION KEYS

At the right side, rigid function keys (or tactile on option). The keys are different according to the function selected and the release software installed.

To configure the unit, proceed as follows:
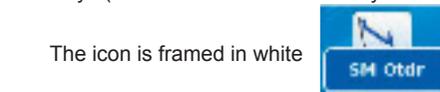
1 Press the HOME button.

The functions available are represented graphically by icons.

Examples:

To validate a function

2 Move on to the icon representing the function to be validated using the direction keys (or the mouse or external keyboard if the corresponding option is present).

The icon is framed in white

3 Press the ENTER key to confirm the selection.

The icon turns yellow and is outlined with a white frame