MS12001 | System

Product Description

The MS12001 system provides the most accurate mandrel-free insertion loss and return loss measurement in the industry for both cable assemblies and components. The MS12001 allows both single-mode and multimode insertion loss and return loss testing within a MS08B single station. A MS12-PM power meter module can be added for more efficient high through-put testing. Furthermore a MS7 1xN optical switch can be added for multi-fiber testing. The MS12001 user-friendly turnkey software manages all test sequences, databases and results.

KEY FEATURES

- Turn-key software
- Local / Remote Database
- Mandrel Free IL/RL
- Modular design providing flexibility and simplifying system upgrades

APPLICATIONS

- Component testing
- Ribbon fiber testing
- Simultaneous testing with multiple connector types
- Incoming inspection
- QA testing
- Single and Multi Fiber Testing

IN THE BOX

- MS05B or MS08B
- Power Cord

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MS05B | 5-slot Compact Benchtop Mainframe

MS08B | 8-slot Benchtop Mainframe

Product Description

The MS05B and MS08B benchtop mainframes are compatible to work with any external computer (certain minimum requirements). They communicate with an included PCI card to either Windows 8, Windows 7 or Windows XP.

MS12001 KEY FEATURES

- High-sensitivity, mandrel-free return loss up to –80 dB
- Simultaneous testing at four wavelengths (1310, 1490, 1550 and 1625 nm)
- Compatible with simplex, duplex, multifiber, bundle, hybrid and fan-out cable assemblies
- Turnkey software and database for manufacturing applications
- Testing capabilities for PLC splitters and planar arrays
- MS12 modules are fully compatible with the IQS-3250 and IQS-3250B from EXFO

COMPLETE INTEGRATION TO MAXIMIZE PERFORMANCE

The MS12001 software has been designed to maximize efficiency in production while keeping its operation simple. The complete integration of the different system components provides the highest possible throughput for insertion loss (IL) and mandrel-free return loss (RL) testing.

GRAPHICAL USER INTERFACE

- Step-by-step instructions with connection diagrams
- Controls available from the main screen
- Live monitoring of IL and RL measurements

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DATA POST-PROCESSING

- Integrated database with all necessary tools to manage results and build reports
- Customized label printing capability
- Database browser with filter builder

AUTOMATION OF CUSTOMER SPECIFIC TESTS

The MS12001 system comes with a full set of SCPI commands allowing customers to develop their own testing applications. The SCPI commands have been implemented to allow users to bypass just the right level of integration from the MS12001 system to develop applications like environmental testing but still benefit from the extensive signal processing capabilities of the system.

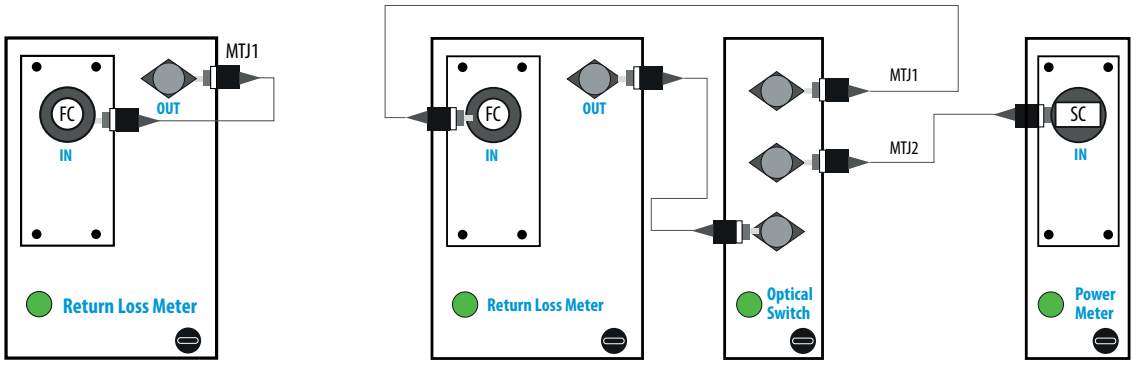
CALIBRATION VERIFICATION TOOL

No need to send the MS12 modules for calibration verification every year. Using MSC-09FA single-mode return loss module the user can easily verify if the system still meets calibration specifications. As long as the return loss measured remains within ≤ 0.5 dB to that of the MSC-09FA, there is no need to send the modules back for calibration therefore avoiding unnecessary downtime.

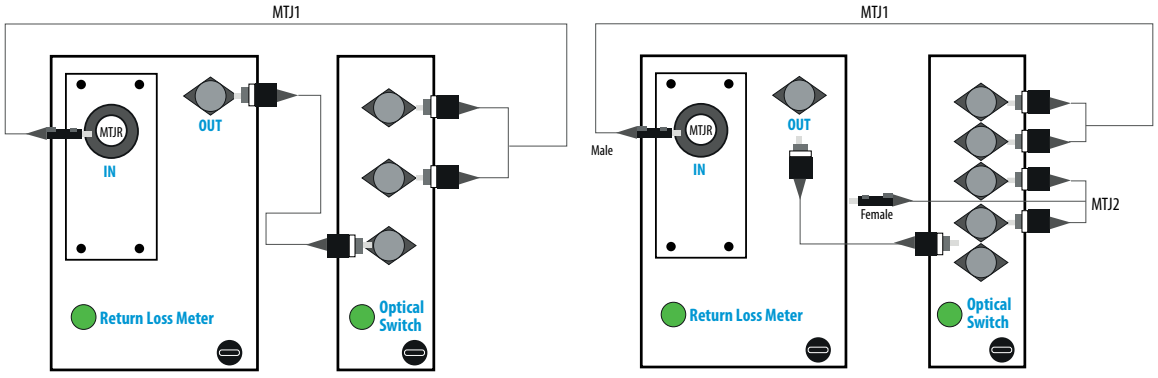
Multiple Configurations for Multiple Requirements

In its standard configuration, the MS12001 system includes only the hardware required to perform IL and return loss measurements at a minimal cost. By adding additional switch ports and loss meters, the MS12001 system can be configured for high-throughput applications in order to minimize handling and therefore reduce the testing time. When more than 72 channel switches are required, external switches (such as the JGR SX8 Switch) can be controlled using the GPIB interface. To save even more time, specific switch ports can be assigned to specific connector types eliminating the need to disconnect the launch fiber. For example, using a 1 x32 switch can allow you to dedicate channels 1 to 24 to MTP connectors (male and female), ports 25 to 28 to MT-RJ connectors (male and female), and still have room for FC, ST, SC and MU connectors.

Standard Configuration



High-Throughput Configuration



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Accessories

The MS12001 system also supports a full range of accessories to further improve the testing time. The user's generic label printer, generic bar code reader and footswitch (pn: VIP-912-FS1) can be added to the system and its use is fully integrated in the software. The footswitch can be purchased from **www.vetra.com/footsw2.htm**. Should the user require the new license for VSVIEW 8.0 RE - ESD label editing, it can be purchased from **www.componentone.com**.

Ordering Scheme

Specifications

MINIMUM COMPUTER REQUIREMENTS	
Operating System	32-bit (64-bit not compatible)Windows 8, Windows 7 or Windows XP
Case Size	Mid-Tower
Motherboard	1 available PCIe slot (1x, 4x, 8x or 16x)
Hard Drive	At least 40GB free
Processor	2nd Generation Intel Core i3 or higher
RAM	4GB

MECHANICAL/ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	
	MS05B	MS08B
Unit Dimensions W x H x D (cm)	36 x 15 x 34	47 x 15 x 34
Shipping Box Dimensions W x H x D (cm)	43 x 27 x 47	53 x 32 x 57
Unit Weight (kg)	7	7.5
Total Shipment Weight (kg)	8	8.5
Operating Temperature (°C)	0 to 40	
Storage Temperature (°C)	–40 to 70	
Humidity (Non-condensing) (°C)	Maximum 95% RH from 0 to 40	