RFILS1000

RADIO FREQUENCY IN-LINE TEST SYSTEM

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Mod.238H1000.EN.D1

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RFILS1000: PRECISION AND EFFICIENCY IN HIGH-FREQUENCY TESTING

The **RFILS1000** is a specialized test **handling system designed for high-frequency** test applications.

It performs **measurement**, **analysis, and verification of RF signals in wireless devices and systems**, ensuring that devices operate effectively and meet stringent quality standards.

Designed to cover wireless requirements such as Wi-Fi, Bluetooth, radio, satellite, LAN, power metering, RF testing, and more, the **RFILS1000** can accommodate a wide range of PCB dimensions and offers future expandability. This system integrates a **Faraday cage** and a double conveyor enabling an In-Line system configuration with other handlers.

Key Benefits

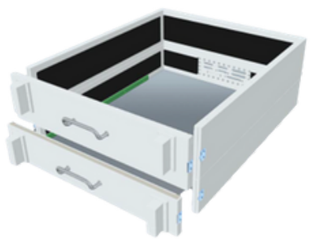
- Adaptable to a wide range of PCB dimensions (from PCB level to complete assembled devices). Integrated Farady cage creating a controlled testing environment for RF devices and signals integrity.
- Compact footprint: RFILS can be connected in a serial line, enabling an inline system configuration with other handlers.
- Special Instrumentation subrack with secondary interface for fixture, featuring short wiring distance between the instrumentation and the UUT.
- Built-in communication system: handlers can communicate with one another internally, eliminating the need for additional link-conveyors, bar-code readers, and buffering stations.
- Configurable line setup: easily configurable via software and customized on a case-by-case basis during product setup.
- Lateral actuation for DUT connectors, such as USB and Ethernet: ensures precise insertion force control, enhancing reliability and performance.
- Suitable across several industries including automotive, telecommunications, medical, aerospace, networking, and defense.

Features

- High-resistance iron and aluminum structure designed to handle up to 8 kN forces.
- Automatic adjustable conveyor width with programmable memory settings.
- High-speed conveyor with programmable speeds of up to 1000 mm/s.
- Servomotor programmable testing heights.
- Handling time of approx. 8 sec. (machine cycle time excluding test).
- Less than 3 minutes fixture changeover time.
- Fixture coding on both bottom and top plates for product/fixture validation.
- Modular pilon blocks for integration of instrumentation such as CAN, RF, pneumatic, or other specific needs.
- Machine control communication drivers for .NET, NI LabWindows/CVI, LabVIEW, or any other third-party platforms with TCP/IP communication sockets.
- Beckhoff virtual PLC.

	RFILS1000
Typical application	FCT, RF-Test
Max. PCB size	510 x 430 mm
Min. PCB width	75 mm
Component top side clearance	100 mm
Component bottom side clearance	35 mm
Drive force (nominal)	10 kN
Recommended/Max test points	3000
Handling time (machinecycle)	approx. 6 Sec (*)
Fixture exchange time	< 3 min
Dimensions (length)	1380 mm
Dimensions (width)	1000 mm
Dimensions (height)	1950 mm
Weight	850 kg
Rackeable/Instrumentation space	14U General Purpose
Interface type	Vacumm Interface Kit
Machine control	Beckhoff
Machine communication	Sockets communication
Electrical power	3x380 VAC 50 - 60 Hz
Pneumatic requirements	6 bar
CE approved	Yes

(*) This handling time will depend on the speed of the conveyors installed before and after our machine.



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