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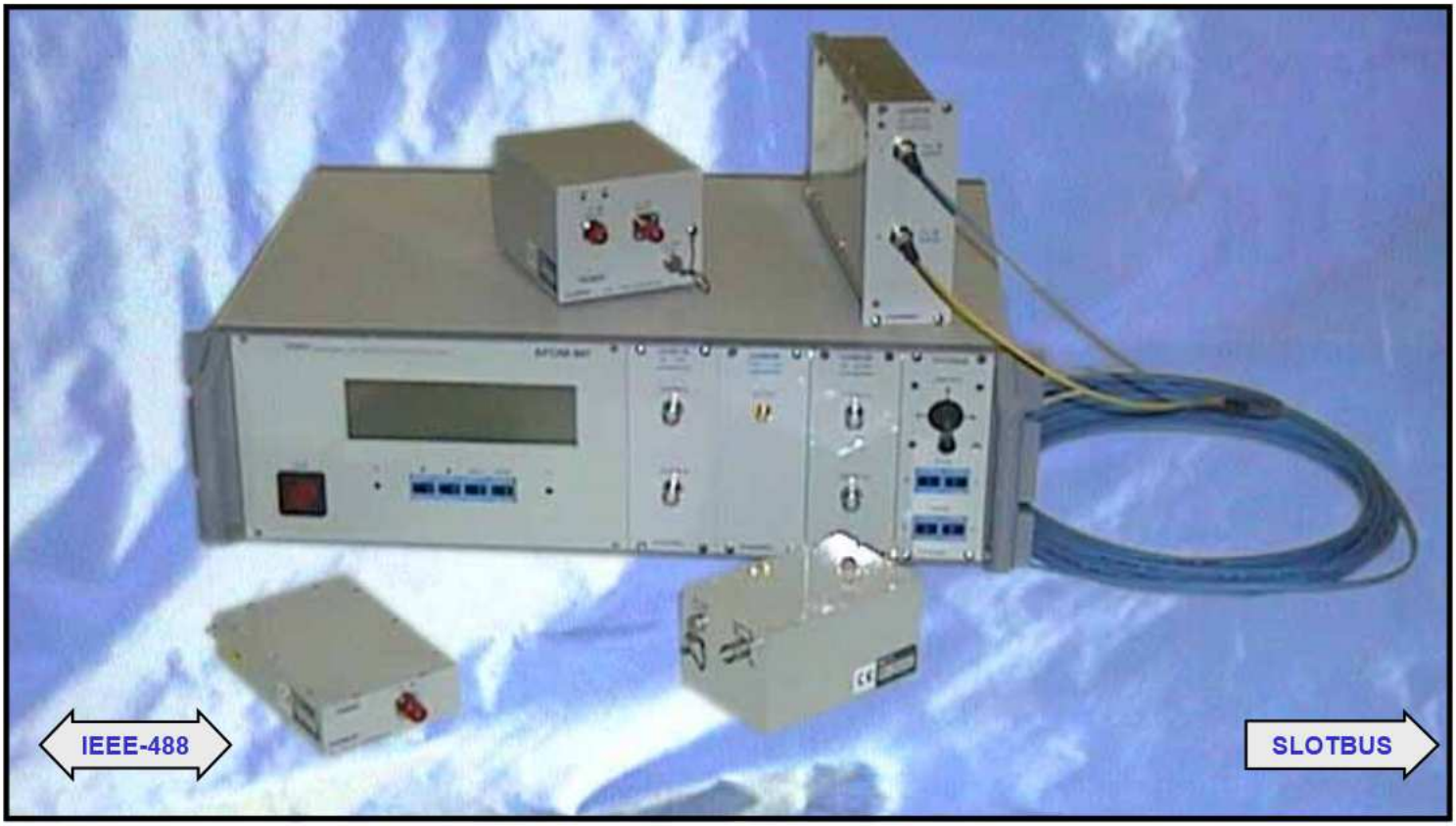
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AFOM-MF ANALOG FIBER OPTIC MULTILINK MAINFRAME



EXTENSIVE FIBRE OPTIC LINKS EXPERIENCE

TESEO has specialized in analog fiber optic links (from DC up to 1 GHz) for over twenty years, producing general-purpose instruments that meet the specialized requirements of almost any application.
Before TESEO developments, when analog fiber optic multilinks were needed, your only choice was to build a special instrument for each application. Such instruments were usually extremely limited in what they could do. Now, with the TESEO line of standard links you can have convenient and repetitive fiber optic transmission for wide band analog signals.
TESEO mainframe is based on an internal bus, microprocessor controlled, called SlotBus; it is able to house, power and interface different modules, allowing the realization of mixed systems tailored to specific applications.
When the channel hosted in the mainframe is manual, microprocessor control and display can't be exploited and the AFOM-MF mainframe can be replaced with a simpler chassis like IMAGE-MF.

PLUG-IN VERSATILITY

One of the reasons for the exceptional versatility of TESEO analog fiber optic multilink is the availability of a vast range of plug-ins.
TESEO plug-ins fit in one of AFOM-MF slots; you can decide the configuration of your system depending on the specific application and TESEO will deliver a system according to your necessities.
These units provide a large selection of working modes (acquisition, telemetry, stimulation, EM field monitoring, audio and video systems); frequency ranges (from DC up to 1 GHz); variable gain/attenuation.
A plug-in system consists of a base module fitting into TESEO mainframe, fiber optic cables for signals and eventually controls, battery powered electromagnetically shielded satellites and battery chargers.
Each TESEO mainframe comes with an embedded IEEE-488 interface as long as keys for local operations; it lodges a large area backlit graphic display (LCD) to show the parameters of each plug-in; it can house up to four plug-ins.
Depending on the application, plug-ins can contain from one channel up to four channels (all channels are optically independent); typically high frequency plug-ins are single channel units, and low frequency or telemetry plug-ins are two channels units.
Resident firmware contains applications for all the plug-ins available at the delivery date; modifications of the configuration are easy as the firmware automatically recognizes and manages installed plug-ins.

Available plug-ins: OAM01B, OAM02B, OAM03B, OAM05B, ODVM01B, OTM01B, OSM03B,OSM05B, OSM06B.

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COMPACT, EASILY INSTALLED, RUGGED

Despite the high number of independent optical channels available in one mainframe, TESEO AFOM-MF is remarkably compact, and well suited both for bench and for rack use.
Dimensions are standard rack 19" 3U. Rack mounting is available.
Hookup is a simple matter since the instruments use switchable 110-220-240V 50/60Hz single phase power.
Fiber optic cables are also designed to offer maximum reliability and easiness in any length links between mainframe and the satellites; a special rugged version of the cable with a reeling frame is available on request.
Satellites are very compact and, thanks to their construction from a block of aluminum and to special shielding solutions, insensitive to CW electromagnetic fields up to 200 V/m and to severe environmental conditions.

TESEO: UNLIMITED APPLICATIONS VERSATILITY

Listed below are a few of the many applications where TESEO analog fiber optic multilinks can make your job easier, faster and above all more accurate:

- DC to 1 GHz signal waveform measurement
- EMC/EMI Radiated emissions
  Conducted emissions
  Radiated susceptibility
  Conducted susceptibility
  Bulk current injection
- Radio frequency voltage, current and power measurement
- Bonding, grounding
- Nemp, lightning
- Electromagnetic field measurement
- High voltage floating measurement with galvanic separation
- Acquisition from remote transducers in industrial and electrically polluted environments
- Audio/video applications
- ...and others

SYSTEM PARTS

AFOM-MF	Mainframe

EXTENSIVE APPLICATIONS ASSISTANCE

An extra benefit of dealing with TESEO is access to applications experience gained by TESEO engineers in over twelve years of solving fiber optic transmission problems: from one-of-a-kind specials to production-line testing instruments.
TESEO experience in system engineering saves you substantial time and money, and can often make your "special requirement" routine.

FIELD PROVEN RELIABILITY

TESEO analog fiber optic multilinks have earned an UNEQUALED reputation for in-the-field reliability.
The number of units needing factory repair has been virtually insignificant over the last twelve years.
The reasons? For one thing, all components are substantially derated. There is no marginal performance anywhere. Furthermore, all TESEO fiber optic links have an individual acceptance test report following their acceptance test procedure and are burned-in before final testing, to detect any possible sources of trouble.

TECHNICAL SPECIFICATIONS

AFOM-MF
Mainframe unit, SlotBus architecture

Interface	: IEEE-488
Display	: backlit graphic LCD
Keyboard	: four keys input
Modularity	: four available slots
Power supply	: 110-230-240 VAC 50/60 Hz
Dimensions	: Rack 19" 3U Depth 365 mm with handles 310 mm without handles
Weight	: 7,5 kg
Operating temperature	: 0° ÷ +50°C
Storage temperature	: -20° ÷ +70°C

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