Field Receiver

			Re	eceiver (AD	C) Front End (BNC)		
Cap Meter	Show warnings			Frequency (MHz)	Att.0 Voltmeter high Z (dB)	Att.0 Antenna (dB)	Att.10 Voltmeter high Z (dB)	Att. Ante (df
		TI	1	0.009	2.68	-6.52	2.90	-6.2
4 5 0			2	0.01	2.70	-6.31	2.92	-6.0
15.0)7 pF		3	0.02	2.69	-5.57	2.90	-5.3
	-		4	0.05	2.69	-5.33	2.89	-5.3
			5	0.08	2.71	-5.27	2.92	-5.0
Cap measure			6	0.1	2.71	-5.25	2.92	-5.0
O Total	Monopole		7	0.15	2.72	-5.24	2.92	-5.0
- Fotor	() Monopole		8	0.2	2.70	-5.24	2.91	-5.0
Calibration			9	0.5	2.70	-5.22	2.89	-5.0
O Typical	User		10	0.8	2.69	-5.20	2.87	-5.0
Cal	Close		FR4003Utility Preference	۲۶ ? ۲۰ ۲۰ ۲۰				
ternal generator			Preselector (MH	:) Prea	mplifier HPF			E PMM (m File Option
nternal load			⊖ off		+10 dB	150 kHz		
• 50 Ohm	O Adapter		 0.009 - 5.6 5.67 - 11.1 	Atter	nuator (dB)			

50 Ohm	🔿 Adap	ter	0 5.67 - 11.19	Attenuator (dB		
uency [10.000000 20.0	MHz dBuV ON	11.19 - 16.71 16.71 - 22.23 22.23 - 30.00	0 1 Battery	Analog output	

Main Features

Intern Interr

> Frequ Level

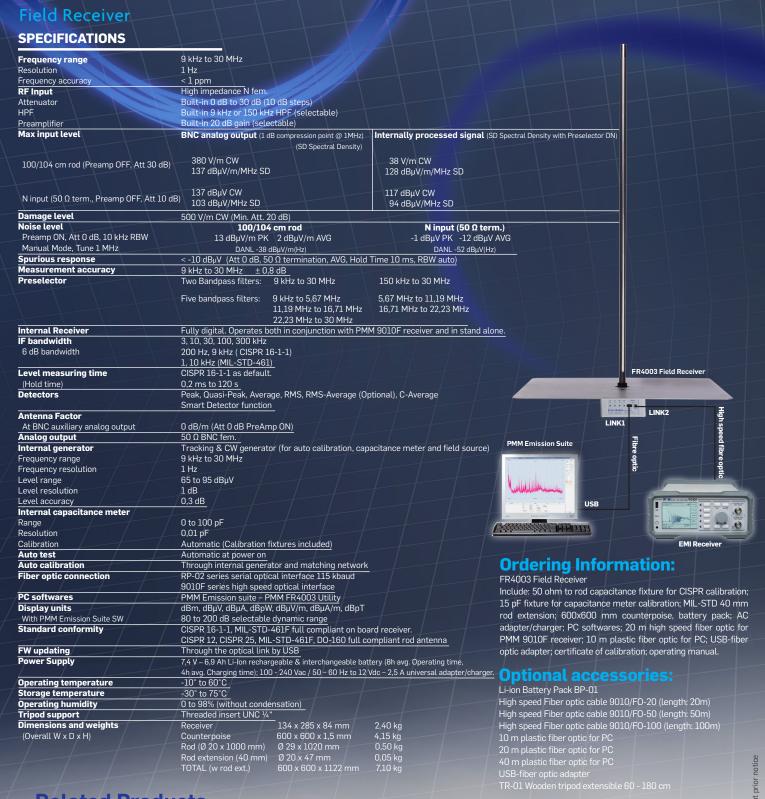
- 9 kHz to 30 MHz frequency range
- Antenna CISPR 12, CISPR 16, CISPR 25, MIL-STD, DO-160 fully compliant
- Internal full CISPR 16-1-1 receiver
- **Embedded Attenuator, Preamplifier and Preselectors**
- Fiber optic serial link to 9010F series or directly to PC
- Grounding Effectiveness Auto-Diagnostic Capability
- On board tracking generator and antenna CISPR adapter Automatic diagnostic and calibration
- Scattering free PC softwares
- **RF Front-End Output**
- On board capacitance meter
- Replaceable Li-Ion battery

The FR4003 is a new reference in measuring electric fields up to 30 MHz. Thanks to its innovative approach it replaces traditional rod antennas adding several benefits. It fully meets all MIL-STD and CISPR specifications of the rod antenna and it is a real full compliant CISPR 16-1-1 receiver with the capability of working, via fiber optic link, either stand alone when connected to a PC or connected to a PMM receiver. Nonetheless, it can maintain full legacy with any standard receiver, because it also has the traditional coaxial cable output. However, this way is not recommended as the cable has a significant influence, such as scattering, which is one of the major drawbacks of rod antennas. The internal receiver structure features preselectors, attenuators and preamplifiers fully controlled either by the internal firmware or manually by the operator. Hence, a test set-up does not need any additional receiver. Moreover, an internal tracking generator allows performing a self-calibration procedure which always guarantees optimum performances, ensuring the accuracy of measurements. The same internal tracking generator is part of an internal capacitance meter that becomes essential not only for the self-calibration, but also for verifying the grounding effectiveness of the antenna. Last but not least, the FR4003 can become a field generator. In this case the antenna broadcasts the signal made by the internal signal generator and can thus be used to characterize environments or other receiving set-ups.

In addition to the standard PEMS software, the FR4003 comes also with a controlling software, which can be used when connected to a standard receiver. Thanks to its replaceable Li-lon battery, the FR4003 can work for several hours with no connection having thus unperturbed field.



FR4003



Related Products

- 7010/00: EMI receiver 150 kHz to 1 GHz
- 7010/01: EMI receiver 9 kHz to 1 GHz
- 7010/02: EMI receiver 9 kHz to 30 MHz 7010/03: EMI receiver 9 kHz to 3 GHz
- 9010: EMI Receiver 10 Hz to 30 MHz
- 9010F: EMI Receiver 10 Hz to 30 MHz
- 9010/03P: EMI Receiver 10 Hz to 300 MHz
- 9010/30P: EMI Receiver 10 Hz to 3 GHz
- 9010/60P: EMI Receiver 10 Hz to 6 GHz
- 9030: EMI Receiver 30 MHz to 3 GHz
- 9060: EMI Receiver 30 MHz to 6 GHz
- 9180: EMI Receiver 6 GHz to 18 GHz
- 9010/Click4E: Four Channels Click Meter

- BC-01: Biconical Antenna 30 to 200 MHz
- LP-02: Log Periodic Antenna 200 MHz to 3 GHz
- LP-03: Log Periodic Antenna 800 MHz to 6 GHz
- VDH-01: Van der Hoofden test-head 20 kHz to 10 MHz
- TR-01: Antenna Tripod
- Antenna Set AS-02 (BC01+LP02+TR01)
- Antenna Set AS-03 (BC01+LP02+LP03+TR01)
- RA01: Rod Antenna 9 kHz to 30 MHz
- RA01-HV: Rod Antenna 150 kHz to 30 MHz
- RA01-MIL: Rod Antenna 9 kHz to 30 MHz



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- L2-16B: single phase AMN, 16 A
 - L3-32: 4 lines, 3-phase AMN, 32 A
- L3-64: 4 lines, 3-phase AMN, 63 A
- L3-64/690V: 4 lines, 3-phase AMN, 63 A
- L3-100: 4 lines, 3-phase AMN, 100 A
- L1-150M: single-path, 50 Ohm AMN, 150 A
- L1-150M1: single-path, 50 Ohm AMN, 150 A
- L1-500: single phase AMN, 500 A
- L3-500: 4 lines, 3-phase AMN, 500 A
 - L2-D: Delta LISN for telecom, 2 A, 150 Ω
 - SBRF4: RF Switching Box
 - SHC-1/1000: Voltage probe, 1000 Vac, 35 dB
 - SHC-2/1000: Voltage prove, 1000 Vac, 30 dB

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FR4003-FEN-51206 - Specifications subject to changes without prior

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