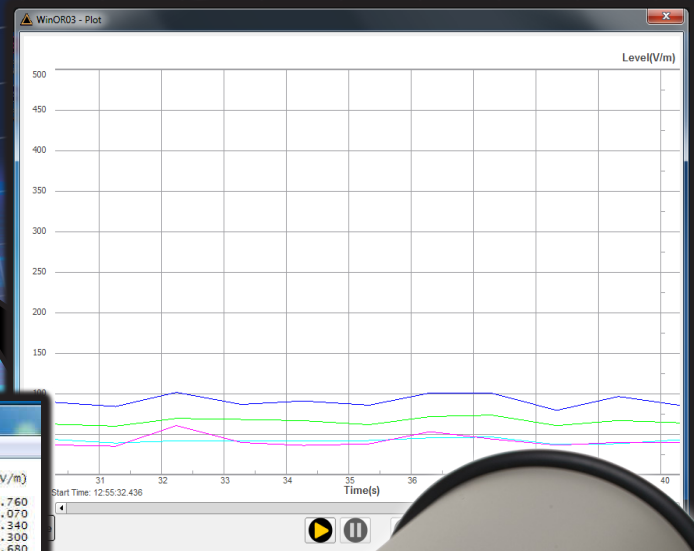
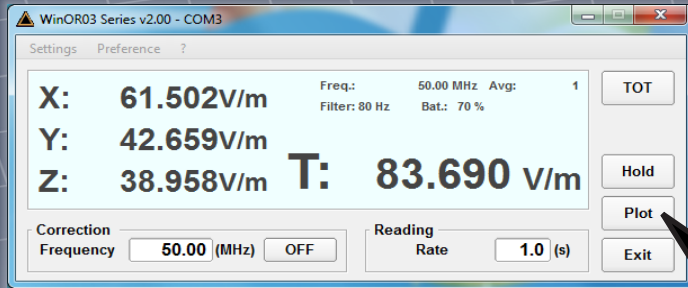


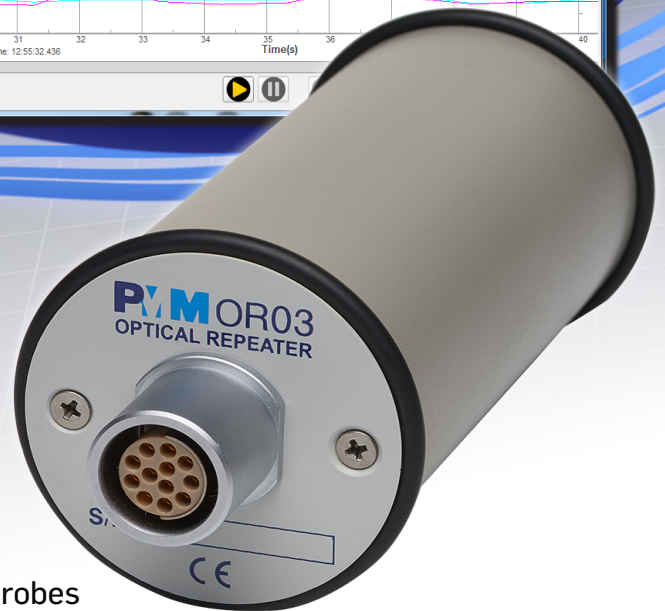
OR-03

Programmable Optical Repeater



Measure - Blocco note

Time	X(V/m)	Y(V/m)	Z(V/m)	T(V/m)
12:55:32.436	59.728	45.642	32.236	81.760
12:55:33.491	60.056	42.139	54.108	94.070
12:55:34.467	69.725	42.155	12.614	95.340
12:55:35.475	65.964	42.574	39.527	86.300
12:55:36.499	70.602	46.378	30.252	107.680
12:55:37.522	64.713	41.757	34.335	82.790
12:55:38.514	65.167	39.747	56.814	99.330
12:55:39.538	60.931	42.445	57.415	101.370
12:55:40.514	64.394	46.595	54.804	100.860
12:55:41.522	68.520	43.156	62.751	103.680
12:55:42.545	60.957	46.580	33.222	82.190
12:55:43.569	63.535	43.184	66.629	102.310
12:55:44.561	60.225	45.184	37.961	88.120
12:55:45.604	71.118	38.094	50.596	95.060
12:55:46.596	61.605	41.257	31.955	82.080
12:55:47.620	71.164	45.782	62.413	99.300
12:55:48.612	68.114	44.217	59.625	101.880
12:55:49.635	70.942	41.085	64.674	104.860
12:55:50.627	61.720	42.835	61.772	96.520
12:55:51.667	71.669	40.703	63.212	96.000
12:55:52.643	61.713	39.249	59.230	84.730
12:55:53.631	69.354	40.729	38.100	91.820
12:55:54.674	71.397	41.211	32.739	99.080
12:55:55.651	70.181	43.702	64.629	103.990
12:55:56.690	69.532	44.156	50.398	99.180
12:55:57.682	65.465	45.317	53.327	94.670
12:55:58.706	68.520	42.695	35.995	99.290
12:55:59.682	68.623	43.011	63.153	99.130
12:56:00.690	69.091	41.921	31.990	101.040
12:56:01.729	60.094	41.827	39.575	89.150



Main Features

- Optical fiber connection up to 80m
- Usable with more than 18 different probes
- Electric frequency range up to 40 GHz and 1000 V/m
- Magnetic frequency range up to 1 GHz and 20 A/m
- Up to 72 hours of continuous operation
- Robust and compact
- Utility SW WIN-OR03

OR-03 is a programmable optical repeater directly connected to a personal computer via optical fiber cable to USB adapter. With its internal battery and dedicated SW, it measures electric and magnetic fields through more than 18 different probes and immediately records and plots the results. The probes can be attached directly to the dedicated heavy-duty connector on the OR-03, which also features excellent shielding properties and can therefore be used at very high field strengths without interference. In addition to the standard WIN-OR03 software delivered with the Optical Repeater, the communication and control protocol is freely available so users can fully control the OR-03 with their usual test software.

The OR-03 is an ideal solution for EMC applications, in chambers and TEM/GTEM cells, and in EMF applications.

OR-03

Programmable optical repeater

SPECIFICATIONS

Output	HFBR-0500 standard fiber optic connector: Up to 40-meters link with USB-OC Up to 80-meters link with 8053-OC (optional)
Input	PMM standard probe connector Battery charger connector
Internal battery	Rechargeable Ni-MH batteries (5 x 1,2 V)
Operating time	> 48 - 72 hours depending on chosen filter
Recharging time	< 4 hours
External power supply	DC, 10 - 15 V, I = around 300 mA
Auto test	Internal diagnostic, probe connection and diodes
PC Utility SW WIN-OR03	Displays field, battery, sampling, filters, averaging, frequency setting, manual data logging as text file
Operating temperature	-10 °C to +40 °C
Operating humidity	0 to 98% RH (without condensation)
Storage temperature	-20 °C to +70 °C
Tripod support	Threaded insert UNC 1/4"
Dimensions	Ø 55 x 130 mm
Weight	270 g

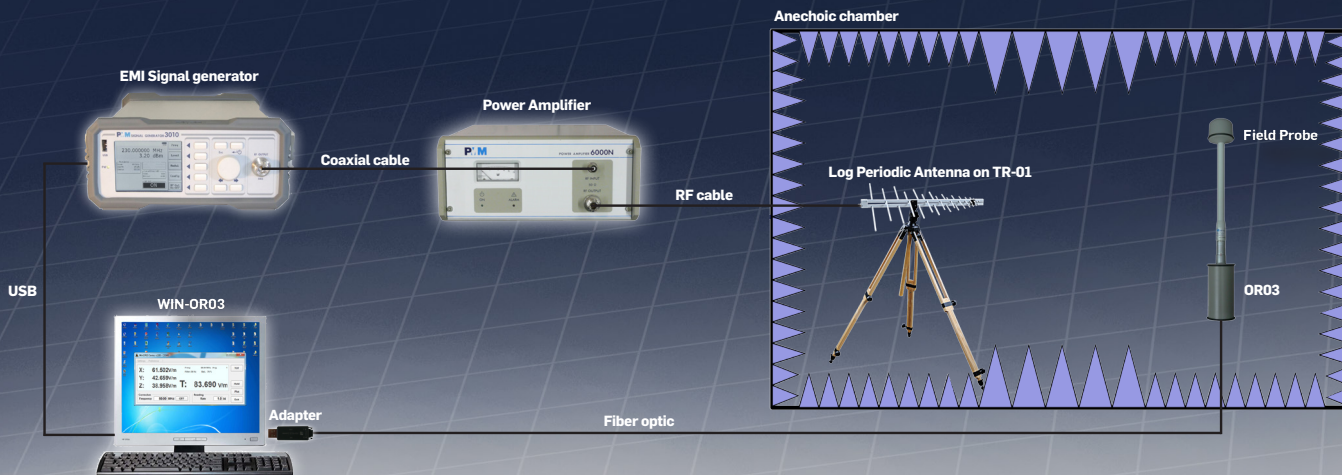


Ordering Information:

OR-03 Programmable optical repeater
Includes: 10 m plastic fiber optic for PC, 10 m plastic fiber optic for 8053B, USB-fiber optic adapter, PC Utility SW WIN-OR03, A/C battery charger, tripod mounting tip, operating manual, standard calibration certificate.

Optional accessories:

SB-10 Switching Control Box
FO-8053/10 Optical Fibre Cable (10m)
FO-8053/20 Optical Fibre Cable (20m)
FO-8053/40 Optical Fibre Cable (40m)
FO-8053/80 Optical Fibre Cable (80m)
FO-10USB Optical Fibre Cable (10m)
FO-20USB Optical Fibre Cable (20m)
FO-40USB Optical Fibre Cable (40m)
TR-02A Tripod complete with joint
TT-01 Telescopic support
8053-OC Optical-RS232 converter
For full list please refer to the User Manual



Related products and services

Generators/Amplifiers/Receivers/Systems

- 3010: EMI Signal Generator 9 kHz to 1 GHz
- 3030: EMI Signal Generator 9 kHz to 3 GHz
- 6000N: Power Amplifier 9 kHz to 230 MHz / 10W
- 6630: USB RF Power Sensor 9 kHz to 3 GHz
- 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
- FR4003: Field Receiver 9 KHz to 30 MHz
- COND-IS: RF Conducted Immunity System
- RAD-IS: RF Radiated Immunity System
- AUT-IS: Automotive Immunity System

Antennas/Calibration services

- BC-01: Biconical Antenna 30 to 200 MHz
- DR-01: Double-ridged horn Antenna 6 to 18 GHz
- LP-02: Log Periodic Antenna 200 MHz to 3 GHz
- LP-03: Log Periodic Antenna 800 MHz to 6 GHz
- LP-04: Log Periodic Antenna 200 MHz to 6 GHz
- TR-01: 60-180 cm wooden extendable tripod
- VDH-01: Van der Hoofden test-head 20 kHz to 10 MHz
- Antenna Set AS-02 (BC01+LP02+TR01)
- Antenna Set AS-03 (BC01+LP02+LP03+TR01)
- Antenna Set AS-04 (BC01+LP04+TR01)
- Antenna Set AS-05 (BC01+LP04+DR01+TR01)
- RA-01: Rod Antenna 9 kHz to 30 MHz
- RA-01-HV: Rod Antenna 150 kHz to 30 MHz
- RA-01-MIL: Rod Antenna 9 kHz to 30 MHz
- Ansi 63,5 Antenna Factor
- SAE ARP 958-D
- Free-Space Antenna Factor
- CAL-6630: Traceable calibration
- LAT-6630: Accredited calibration

Probes

- EP-105: Field probe 100 kHz to 1000 MHz 0,05 to 50 V/m
- EP-183: Field probe 1 MHz to 18 GHz 0,8 to 800 V/m
- EP-201: Field probe 60 MHz to 12 GHz 3 to 500 V/m
- EP-300: Field probe 100 kHz to 3 GHz 0,1 to 300 V/m
- EP-301: Field probe 100 kHz to 3 GHz 1 to 1000 V/m
- EP-330: Field probe 100 kHz to 3 GHz 0,3 to 300 V/m
- EP-333: Field probe 100 kHz to 3,6 GHz 0,15 to 300 V/m
- EP-33A: Field probe 925 MHz to 960 MHz 0,03 to 30 V/m
- EP-33B: Field probe 1805 MHz to 1880 MHz 0,03 to 30 V/m
- EP-33C: Field probe 2110 MHz to 2170 MHz 0,03 to 30 V/m
- EP-33M: Field probe 700 MHz to 3 GHz 0,3 to 300 V/m
- EP-408: Field probe 1 MHz to 40 GHz 0,8 to 800 V/m
- EP-44M: Field probe 100 kHz to 800 MHz 0,25 to 250 V/m
- EP-600: Field probe 100 kHz to 9,25 GHz 0,14 to 140 V/m
- EP-601: Field probe 10 kHz to 9,25 GHz 0,5 to 500 V/m
- EP-602: Field probe 5 kHz to 9,25 GHz 1,5 to 1500 V/m
- EP-603: Field probe 300 kHz to 18 GHz 0,17 to 170 V/m
- EP-604: Field probe 300 kHz to 26,5 GHz 0,4 to 800 V/m
- EP-745: Field probe 100 kHz to 7 GHz 0,35 to 450 V/m
- HP-032: Field probe 100 kHz to 30 MHz 0,01 to 20 A/m
- HP-050: Field probe 10 Hz to 5 kHz 10 nT to 40 µT
- HP-051: Field probe 10 Hz to 5 kHz 50 nT to 200 µT
- HP-102: Field probe 30 MHz to 1000 MHz 0,01 to 20 A/m



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