

PM50 - SERIES

PERSONAL PROTECTION EQUIPMENT (PPE)
LOW FREQUENCY MEASURING FOR WORKERS AND
GENERAL PUBLIC

FREQUENCY RANGE 25 Hz - 30 KHz



PM50D with display



PM50 without display



PM devices allows to monitoring and protect the person from the risk of exceeding the exposition threshold for low frequency magnetic fields, through their positioning on the limbs, on the trunk and on the waist. The sensor location individuation on the device allows to place it exacly where needed.



GENERAL SPECIFICATIONS	PM50	PM50D	PM50D-20
Portable			
PPE upper limbs			
PPE waist			
PPE trunk			
Logger 168 h			
Programmable from PC			
PC upgradable software/firmware			
Batteries replaceable by the operator			

TECHNICAL SPECIFICATIONS

	PM50	PM50D	PM50D-20
Sensor type	Triaxial magneto-resistive *	Triaxial magneto-resistive *	Triaxial coil
Frequency response Within 1 dB Within 3 dB	@ Full band 38 Hz...10 kHz 25 Hz...30 kHz	@ Full band 38 Hz...10 kHz 25 Hz...30 kHz	@ Full band 42 Hz...2 kHz 35 Hz...5 kHz
Level range Resolution Overload Dynamics	300 nT...1 mT 10 nT 2 mT 70 dB	300 nT...1 mT 10 nT 2 mT 70 dB	10 uT...20 mT 10 uT 22 mT 66 dB
Measurement error Linearity error Absolute error	@ 40...1000 Hz - 1...300 uT 1.2 dB 1.6 dB	@ 40...1000 Hz - 1...300 uT 1.2 dB 1.6 dB	@ 45...500 Hz - 0.1...20 .mT 1.2 dB 1.6 dB
Unit of measurement	uT; A/m	uT; A/m	mT; kA/m
User defined measurement mode	Selective 50 Hz; 50 Hz +harmonics; wide band;	Selective 50 Hz; 50 Hz +harmonics; Selective 60 Hz; 60 Hz +harmonics; notch a 50 Hz and 60 Hz; wide band;	Selective 50 Hz; 50 Hz +harmonics; Selective 60 Hz; 60 Hz +harmonics; notch a 50 Hz and 60 Hz; wide band;
Data logger Max recording time Sample rate/Acquisition time	24 h 5...30 sec (24 h)	168 h 5...30 sec (24 h) and 30sec (168 h)	168 h 5...30 sec (24 h) and 30sec (168 h)
Display	n.a.	LCD 2 lines X 16 characters with led backlighting	LCD 2 lines X 16 characters with led backlighting
Multifunction led indicator	Green led-measure in acquisition Red led - exceeding alarm threshold	Green led-measure in acquisition Red led - exceeding alarm threshold	Green led-measure in acquisition Red led - exceeding alarm threshold
I/O interface	Usb	Usb	Usb
Sound alarm	Programmable threshold from PC software	Threshold from 1 uT to 500 uT with step 1 uT	Threshold from 0.1 mT to 20.0 mT with step 0.1 mT
Auto turn off	n.a.	20 min; 60 min; disable	20 min; 60 min; disable
Date and time	Programmable from PC	Settable by operator	Settable by operator
Standards	2013/35/EU Directive	2013/35/EU Directive	2013/35/EU Directive
Operating temperature	-10°...40°C	-10°...40°C	-10°...40°C
Sensor position	Showed on the case	Showed on the case	Showed on the case
Power Battery life	Li-Ion rechargeable (Usb powered) >48 h @ acq.Time =30 sec	2 alkaline AA > 80 h or 2 Ni-MH1900 mA/h >168 h	2 alkaline AA > 80 h or 2 Ni-MH1900 mA/h >168 h
Size Height X Width X Depth	70 X 44 X 17 mm	118 X 79 X 25 mm	118 X 79 X 25 mm
Accessories	Usb interface cable Programming and data download software	Usb interface cable Programming and data download software	Usb interface cable Programming and data download software
Calibration certificate	Standard	Standard	Standard
Anchor kit	Upper limbs, trunk and waist	Waist and table/tripod	Waist and table/tripod

Specification may change without prior notice

*Guaranteed operation in presence of static magnetic fields below 100µT



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