MICRORAD

AM40D RF WARNING PERSONAL MONITOR





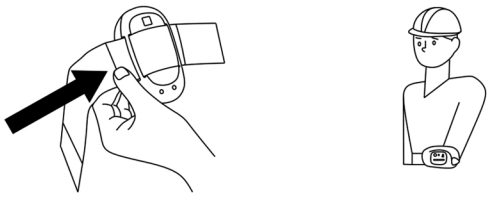
The AM40D is a Microrad's personal monitor for assessing user exposure to electromagnetic fields.

The instrument is intended to alert the user in case of exposure to high fields; therefore its use involves keeping it always close to the body.

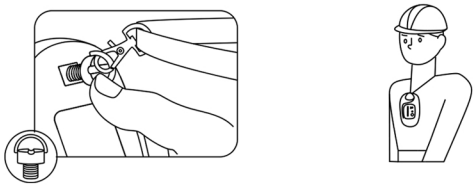
Thanks to three sensors along the Cartesian axes X, Y, Z, AM40D guarantees an accurate evaluation of the field not dependent on its direction.

- Bandwidth 1 MHz – 40 GHz
- Acoustic and optical alarms
- Reference level selectable among Icnirp98 Pop, Icnirp98 Occ, 2013-35-UE, Manual
- Isotropic E field sensor
- Adjustable alarm and warning thresholds
- 200 hours of autonomy

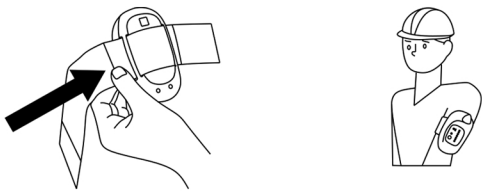
The use of the personal monitor requires that it is always kept close to the user's body. For this purpose, the device is equipped with three possible fixing systems:



A belt can be slid into the rear slot of the monitor.



By inserting the threaded pin equipped with a loop suitable for screwing into the back, the device can be fastened to the user's neck.



By inserting the elastic band, the monitor can be fixed to the operator's arm.

MICRORAD

TECHNICAL SPECIFICATIONS

SENSOR	
Frequency range	80 MHz – 6 GHz
Measured field	Electric field
Sampling rate	1 sec
Linearity	+/- 0,5 dB (20% - 200%)
Frequency response	+/- 3 dB from 1 MHz to 6 GHz +6/- 3 dB from 6 to 20 GHz +10/-3 dB from 20 to 40 GHz
Measurement interval	3 - 200 V/m (cw)
Anisotropy	1 dB @ 1 GHz
Immunity to 50/60 Hz electric field	> 5 kV/m
OPERATOR INTERFACE	
Alarm indications	7 LED with percentage indication of 10/15/25/50/100/150/200 % exposure, acoustic if threshold values are exceeded
Power On/Off	Single button with two-color blue/red LED indication
Battery Charge Status	Two-color green/yellow LED
Data and charging connector	USB
Software	MicroLink
SW settings	Regulatory limits, 2 alarm threshold levels, frequency correction factor
GENERAL SPECIFICATIONS	
Recommended calibration interval	3 years
Battery	LiPo rechargeable
Charging time	1.5 hours
Autonomy without alarm	200 hours
Operating temperature	-5 °C to +45 °C
Humidity	5 to 95%, non-condensing
Size (L x W x H)	107 x 60 x 53 mm
Weight	90 g
Protection rating	IP54
Origin	Italia

Information subject to change without prior notice

MICRORAD

MICRORAD
Piazza delle Azalee 13/14
05018 Orvieto (TR) - ITALIA

Tel. +390763 393291
Email info@microrad.it
Web www.microrad.it