bai communications

Mandatory RF Monitor Specifications

To ensure that correct readings occur while working around RF it is essential to ensure that you are using a suitable RF Monitor device. Ensure the device you intend to use for monitoring RF on a broadcast site meets the following requirements:

Device Calibration: **Evidence of current calibration.**
Field Detectors: **E & H.**
Exposure Standard: **ICNIRP1998/ICNIRP RF Guidelines 2020.**
Frequency Dynamic Range E Field detector: **1MHz to 6GHz or better.**
Frequency Dynamic Range H Field detector: **27MHz to 1GHz or better.**
Frequency Response for Broadcast Service Frequencies (80MHz to 700MHz): **+/-3dB.**

You can watch a video on the correct use of a Radman here
https://www.youtube.com/watch?v=QMQEeSvnRsU.

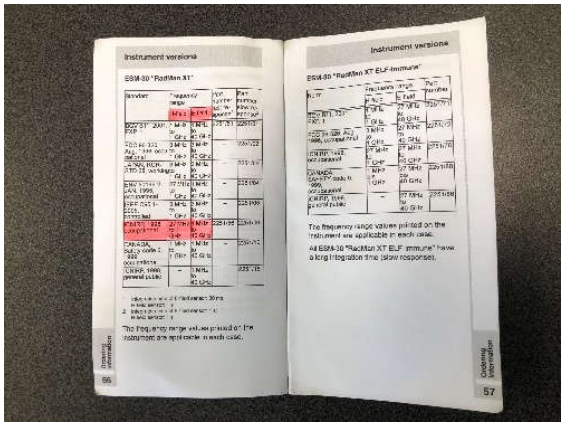
If in doubt, refer to manufacturer's handbook

Typical RF Monitoring Device & Associated Accessories

Typical RF Monitoring Device normal insulating cap over field detectors when worn on body/harness

Typical RF Monitoring Device depicting Exposure Reference Standard set within unit
E and H field range information on label

Typical RF Monitoring Device indicating Calibration label



Typical RF Monitoring Device Handbook denoting Frequency limitations at Reference Standard


Typical RF Monitoring Device indicating correct usage when alarming has been indicated on device

<u>Common causes for false triggering</u>

Incorrect Usage

- Insufficient training or lack of refresher training in the use of the device
- Lack of understanding of the limitations of the device
- Device not mounted on the chest of the operator
- Insulating cap not facing the correct way when worn by operator
- Failure to remove the insulating cap and placing on the bottom of the unit
- Failure to hold device by the insulating cap
- Failure to hold device well away from operators' body
- Failure to use an insulating extension handle when investigating alarming occurrences

Inadequate RF Monitor Type and or Quality

- Some device types are unsuited to, nor designed to function at certain frequencies
- Some device types have a dynamic frequency range which renders them overly sensitive at certain frequencies

RF Monitor Out of Specification

- Damaged or faulty field detectors within the device
- Device is out of calibration