

Delta V ECM Differential RF Detector

FEATURES

- Flat Response - Delta V provides an almost completely flat frequency response over a wide frequency range from 10MHz to over 6.5GHz. This remarkable performance gives you the confidence that Delta V provides consistent and reliable detection of localised RF transmissions.
- Greater sensitivity - By using alternative antennae, greater sensitivity can be achieved.
- Push-Button Sensitivity Reduction - To allow more accurate pinpointing of a transmitter a Push-button is provided to reduce the sensitivity of Delta V.
- Silent Operation - Delta V comes equipped with an earphone to allow silent operation for countermeasures applications.

Delta V is a hand held differential RF field strength wide band detector. Rather than measuring the absolute field strength, Delta V measures the rate of change in field strength.

This technique gives a high degree of rejection of strong distant signal sources providing greater discrimination against outside signals.

Ideal for locating radio bugs, basic RFI/EMC testing and localising illegal high power broadcast transmitters.

A Push-button is provided to reduce the sensitivity of Delta V when working close to a local transmitter. This prevents the strong signal response experienced close to a transmitter causing a maximum response too far away to locate the source accurately.



TECHNICAL SPECIFICATIONS

DETECTION CAPABILITY

All transmitter types

FREQUENCY DETAILS

| | |
|---------------|--|
| Coverage | +/- 5dB 10 MHz to beyond 4000MHz |
| Sensitivity | Average -53dBm |
| Dynamic Range | Greater than 50dB, typically -52dBm to +5dBm at 1GHz |
| CMRR | 20dB at 1GHz |
| Input | Maximum CW 200mW |

POWER REQUIREMENTS

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| Battery | Alkaline 9V PP3, gives approx. 24 hours of continuous operation (up to 30 hours at low click rate). Low battery warning at nominal 5.8VDC. |
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OUTPUT

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| Audio | Geiger type 'click' from internal speaker or earphone. |
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DIMENSIONS

| | |
|--------|-------|
| Height | 122mm |
| Width | 62mm |
| Depth | 22mm |
| Weight | 245g |

ACCESSORIES

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| Standard | Antenna set, Earphone, Carrying Pouch, Battery, Instruction manual |
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ORDER CODE

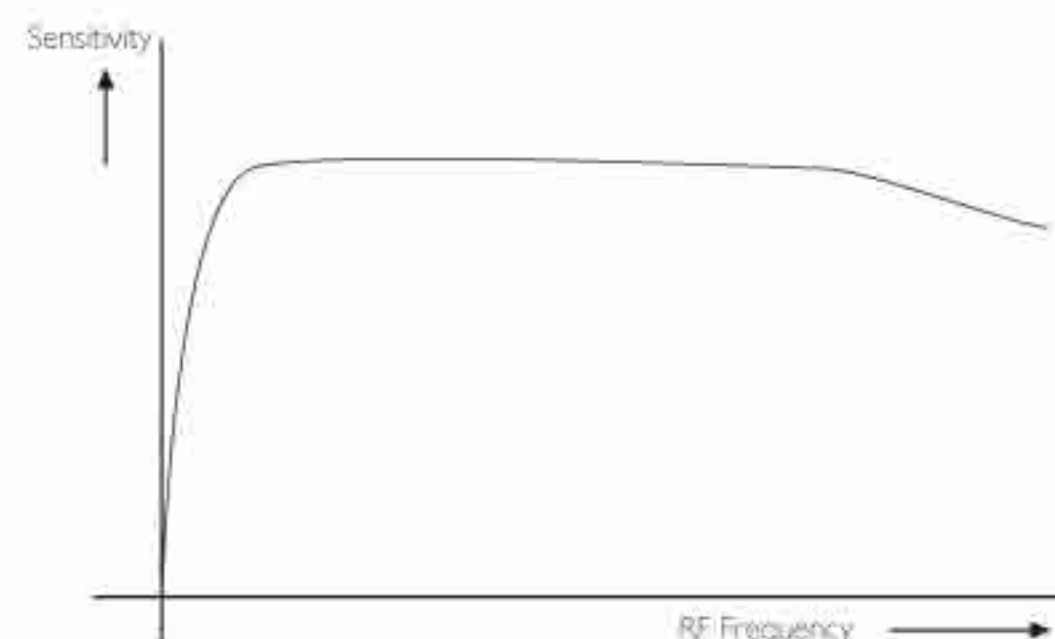
| | | |
|-----------|--|-----------|
| 2-197-148 | Delta V equipment is also included in Entry Level TSCM Sweep Kit | 2-197-171 |
|-----------|--|-----------|

WARRANTY

Delta V Differential RF Detector comes with a return-to-base warranty against defective materials and workmanship for a period of 2 years from delivery.

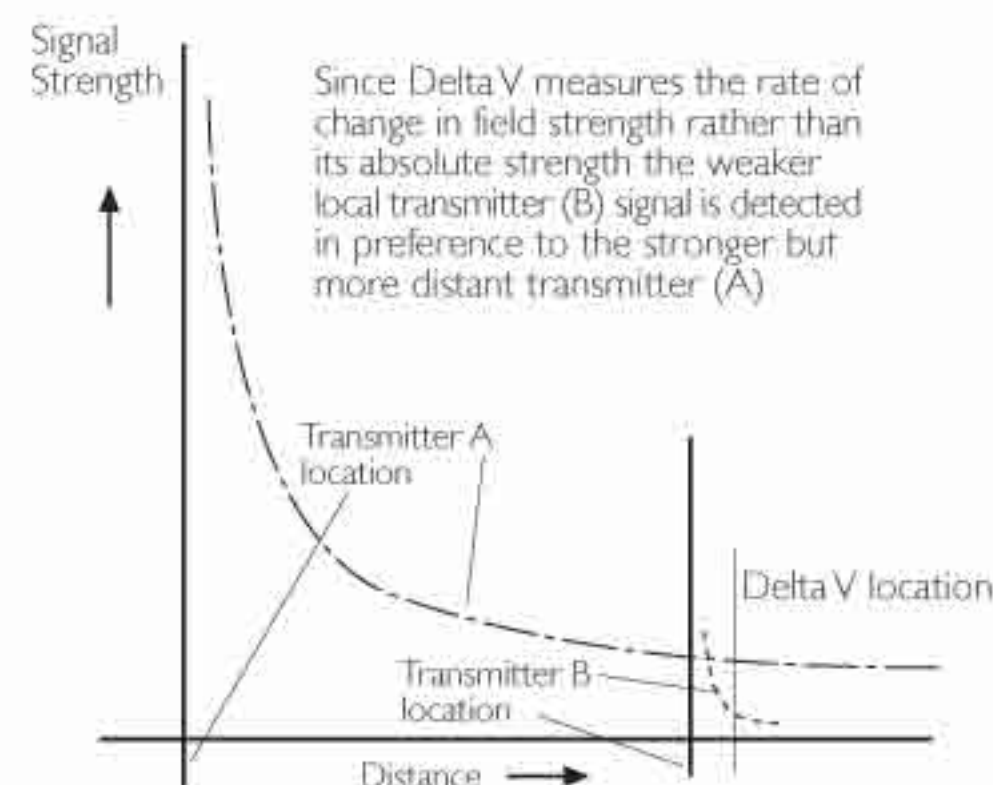
FLAT RESPONSE

Delta V provides an almost completely flat frequency response over a wide frequency range from 10MHz to over 6.5GHz. This is achieved by using matched Schottky detector diodes in conjunction with a low noise wide dynamic range differential DC preamplifier, which is further enhanced with automatic drift and offset cancelling.



DIFFERENTIAL DETECTION

Since the differential field from an RF transmitter falls at a greater rate than the absolute field strength, Delta V can be used to locate weak local transmitters even in the presence of stronger RF transmissions. This is achieved by measuring the differential between the matched pair of antennae.



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