

"GSM" TELEPHONE BAND

HOW TO INSTALL AND ADJUST "GSM" TELEPHONE MICRO-REPEATERS WITHOUT RISKS

With ROVER meters it is possible to correctly and easily install "GSM" band telephone micro-repeaters without risk. These are used and are often indispensable in shops, warehouses, underground car parks and even simply in homes just at the limits of service areas.

Obviously we suggest to everyone to learn about and follow the instructions of micro-repeater manufacturers. As you know, outdoor antennas must never see internal ones to avoid self-oscillating phenomena, which can cause blocks to telephone cells and generate grievous economic damage to the operator.

As all new ROVER meters have an extended TV band up to 1000 MHz and are the only ones that have canalized the band above TV channel 69. To measure and adjust a telephone micro-repeater simply follow points ① and ② below:

"GSM" telephone bands are divided into two semi-bands, in other words:

- 1) The reception band from 935 to 960 MHz = corresponding to channel 81 in ROVER meters
- 2) The transmission band from 890 to 915 MHz = corresponding to channel 74 in ROVER meters

HOW TO MEASURE RECEPTION POWER

①

see fig. 1:

- 1) select TV spectrum function
- 2) select channel 81
- 3) select DIGITAL MODE
- 4) select 50 MHz SPAN
- 5) select REF LEVEL 91 dB μ V
- 6) adjust the antenna to receive the maximum power



FIG. 1 reception power measurement in the 935 to 960 MHz band

HOW TO MEASURE TRANSMISSION POWER

②

see fig. 2:

- 1) select TV spectrum
- 2) select channel 74
- 3) select DIGITAL MODE
- 4) select 50 MHz SPAN
- 5) select REF LEVEL 130 dB μ V
- 6) activate a "GSM" telephone near the repeater installed indoors making sure you do not exceed 130 dB μ V.

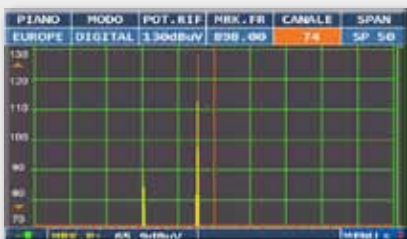


FIG. 2 transmission power measurement in the 890 to 915 MHz band

