

# PRO FM-75

## FM band repeater

### User manual



## 1. Purpose

PRO FM-75 is a FM band repeater, which amplifier FM band signal field to mains , tunnels , industrial halls and to other same kind of places or constructions , where a original FM signal field is insulated for some reason from out of FM broadcast transmitters signal field cover.

PRO FM-75 provides selective FM power apllifier and distortion and too big output level pointing double color LED indicator.

## 2. Installation

The cable from FM antenna should be connected to **FM IN** connector.

NOTE! PRO FM-75 input signal level should be in range 65...85 dBuV to achieve the best performance of output. To input can be connected also a small wide band amplifier to increase the input level , if the level is too low without.

**RF OUT** connector should be connected to leaking cable. To prevent the oscillation in the unit , must be make sure the insulation between output and input connected receiving antenna is big enough.

## 3. Adjustment



There is only one adjustm3ent in the PRO FM-75 repeater. OUTPUT LEVEL should be adjusted as the output power level indicator LED turns from green to red. Then the gain should be reduced as much as the LED turns just green. If LED lights as double color red/green as almost orange is the output level near to change to too high.

PLEASE NOTE! If the reception circumstance will highly change , for examble based of different kind of weather can the LED turn to red. In that case the output level should be reduced a little bit.

### Tecnical specifications

|                      |                                 |
|----------------------|---------------------------------|
| Frequency range      | 88 ... 108 MHz                  |
| Minimum input level  | 65 dBuV                         |
| Maximum input level  | 85 dBuV                         |
| Maximum output level | 130 dBuV (n. 100 mW)            |
| Gain                 | 65 dB / adjustable 0 ... -20 dB |
| Power consupcion     | 230VAC/6W                       |
| Impedance            | 75 ohm                          |
| Connectors           | F-female, Euro plug             |
| Size                 | 75 mm*130 mm*355 mm             |