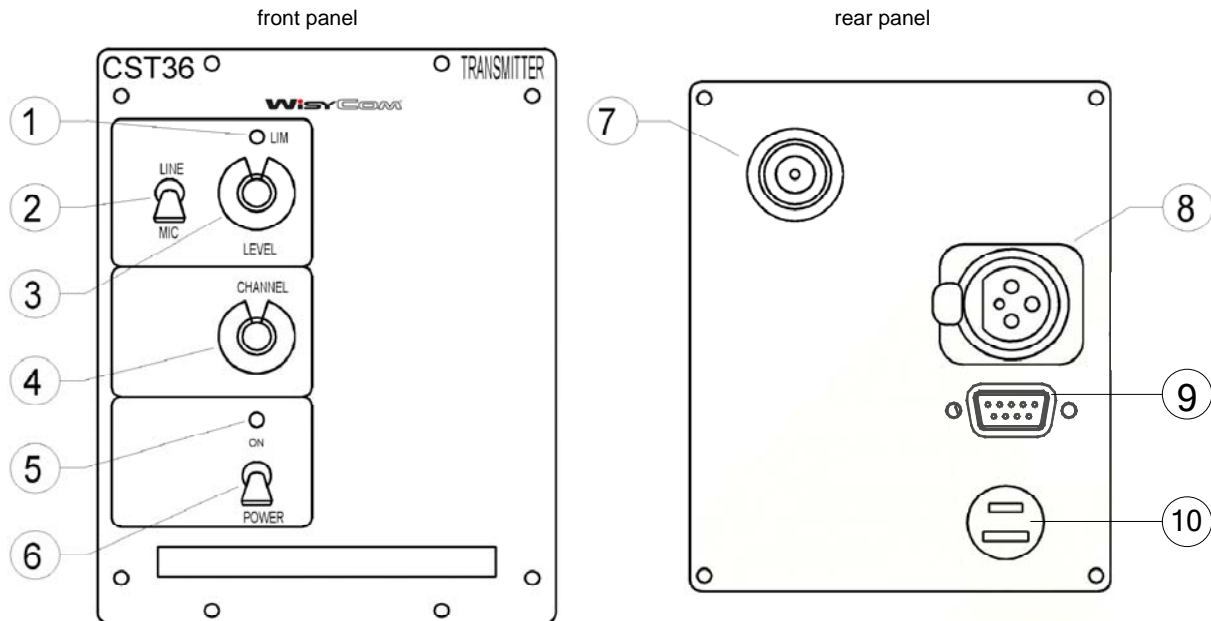


**WIRELESS-COMMUNICATION SYSTEMS**  
**CST 36 - UHF TRANSMITTER MODULE (2 W)**



- 1) LED INDICATION: LIMITER-ON STATUS (yellow LED)
- 2) SELECTOR: AUDIO INPUT LEVEL (Micro/Line)
- 3) ADJUSTMENT: AUDIO INPUT SENSITIVITY  
With the optimum sensitivity adjustment, the yellow LED (2) must flash under modulation peaks.
- 4) CHANNEL SWITCH
- 5) LED INDICATION: APPARATUS-ON STATUS (red LED)
- 6) ON/OFF SWITCH
- 7) CONNECTOR: ANTENNA (N type)
- 8) CONNECTOR: AUDIO INPUT (XLR3-F type)  
The audio input is transformer balanced and floating.
  - pin 1 = ground
  - pin 2 = a-input
  - pin 3 = b-input
- 9) CONNECTOR: D9-F type, optional
  - pin 3 = PTT/UNL signal; • pin 8 = ground.

With **UNL** option installed, connector permits CST50 sending a command tone which will disable CRT16 continuous transmitting (mode if locally enabled). Disabling tone is forced closing Pin3 on Pin4 with a remote switch (pin 3 and pin 4 are in low voltage)

- 10) CONNECTOR: DC POWER INPUT (10.5 ÷ 16 Vdc)



CST36\_rev03-1.doc

WISYCOM S.r.l.

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Cap. Soc. €.: 51.000 i.v. - VAT: IT 02765640244 - Reg. Imp. e C.F.: 02765640244

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**CST 36 - UHF TRANSMITTER MODULE**  
**FOR WIRELESS-COMMUNICATION SYSTEMS**  
(Output power = 2 W, 16 switchable frequencies)

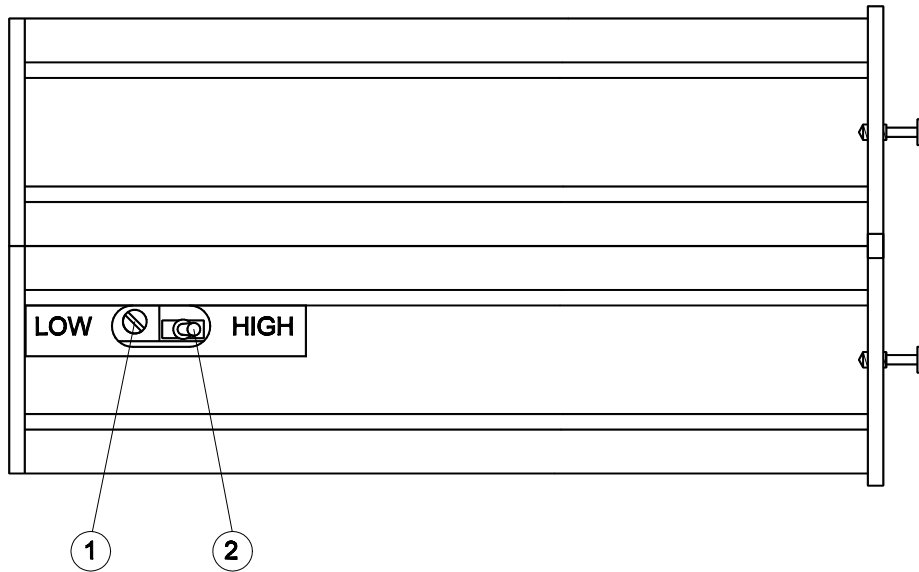
**TECHNICAL SPECIFICATIONS:**

- Switchable channels : 16, preset in the 400 ÷ 490 MHz range (others on request).
- Switching-window : 5 MHz (others on request).
- Frequencies : with microprocessor controlled PLL synthesizer circuit.  
They are easily user-reprogrammable by DOS-PC and optional "UPK32 Programming kit"
- Channel raster : 25, 20 or 12.5 kHz **[1]**.
- Frequency error : < ±5 ppm, in the rated temperature range.
- Temperature range : -10 ÷ +55 °C.
- RF output power : 2 W (± 1 dB) **[1]**. (On request, the CST36 can be fitted with output power selector: HIGH (2 W) / LOW (300 ÷ 800 mW, adjustable).
- RF output impedance : 50 ohm (type N connector).
- Spurious emissions : < 2 nW.
- Modulation : FM, linear (nom. dev. = ±3.3, ±2.7 or ±1.7 kHz, depending on the ch. raster) **[1]**.
- Audio input : transformer balanced, floating.
- Audio input level : Micro / Line switchable, and externally adjustable between:  
⇒ Micro = -54 ÷ -23 dBu (1.5 ÷ 55 mVrms)  
⇒ Line = -23 ÷ +8 dBu (55 ÷ 1950 mVrms).
- Audio input impedance : Micro = > 2 kohm  
⇒ Line = > 10 kohm.
- Peak-limiter : automatic, with dynamic-range > 24 dB over the level set for the nominal modulation.
- NR system : compander circuit with "NR" (Wisyscom Standard-NR) setting.
- AF bandwidth : 300 Hz ÷ 4.4 kHz (-3 dB), for 25 kHz channel raster **[1]**.
- Distortion : < 0.5 % (0.25% typ.).
- SND/D ratio : > 80 dB (83 dB typ.), CCITT measured.
- LED indications : ⇒ Transmitter On (red LED)  
⇒ Limiter On (yellow LED).
- Powering : 10.5 ÷ 16 Vdc, 700 mA max. (negative ground).
- Dimensions : 123 x 98 x 160 mm (n. 2 modules).
- Weight : 1,200 g approx.

**NOTE [1]:** or according to local regulations

**WIRELESS COMMUNICATION SYSTEMS  
CST 36 - UHF TRANSMITTER MODULE (2W)**

**SETTING OF OUTPUT TRANSMITTING POWER**



- 1) **SETTING OUTPUT POWER IN "LOW POWER" MODE**  
Low power is adjustable between 300-800mW. It is factory preset at 300 mW.
- 2) **OUTPUT POWER SWITCH**  
**HIGH** = 2 W  
**LOW** = 300 mW (see point 1).



CST36-3.doc

**WISYCOM S.r.l.**

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