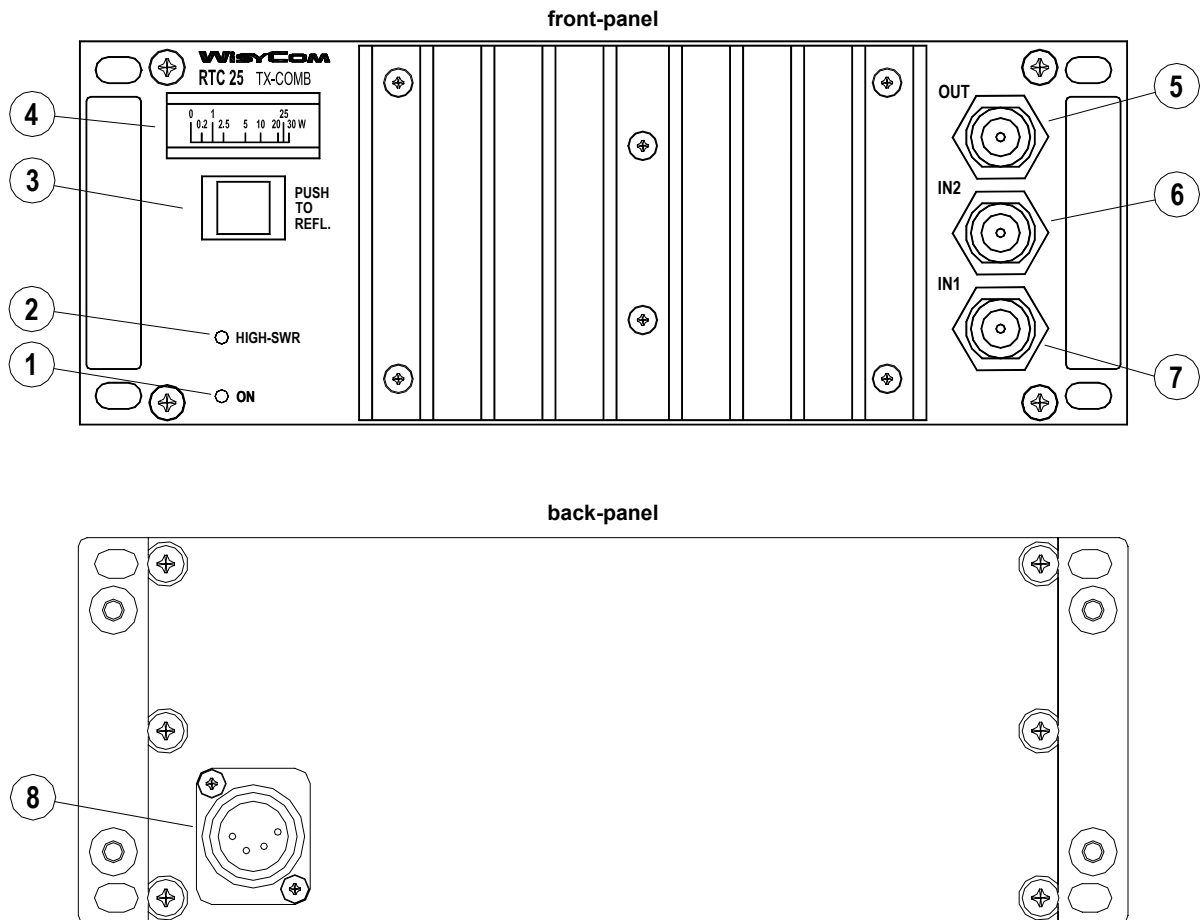


**OB-VAN RADIO-LINK SYSTEMS**  
**RTC 25 - 2 x 50 W TRANSMITTER-COMBINER**  
(1/2 x 19"/2U standard-rack)



- 1) Signalling LED: **ON** (green LED) is on when the apparatus is powered.
- 2) Signalling LED: **HIGH-SWR** (red LED) is on when the antenna SWR (Standing Wave Ratio) is  $> 1:2$ .
- 3) Push-button: reflected-power measuring.  
When the push-button is pushed, on the meter [4] you can read the reflected power instead of the output power.
- 4) Meter: output-power / reflected-power.
- 5) Connector: RF output (N-female type).
- 6) Connector: RF input #2 (N-female type).
- 7) Connector: RF input #1 (N-female type).
- 8) Connector: DC-power input (XLR4-M type) [ +V = pins 2 + 4; -V and ground = pins 1 + 3 ].  
An internal self-resetting fuse protects circuits and powering source.

**OB-VAN RADIO-LINK SYSTEMS**

**RTC 25 - 2 x 50 W TRANSMITTER-COMBINER**

The RTC 25 Transmitter Combiner is very compact and, in spite of its small size, it features very good characteristics.

Its inherent intermodulation generation is kept extremely low, using **Wisycor** transmitters, thanks to the very high-quality “-3 dB power-coupler module” and other devices employed, accurately selected between the top-class brands on the market.

Furthermore, a very low-loss and sharp low-pass filter on the output prevents any harmonics.

Also the cross-talk between the inputs is very low, since they are decoupled by circulators.

The RTC 25 allows to operate also with output mismatching: in case of bad antenna- or cable-impedance characteristics, the reflected-power coming back from the antenna is redirected to its internal dummy-load, capable to absorb a continuous power of up to 100 W.

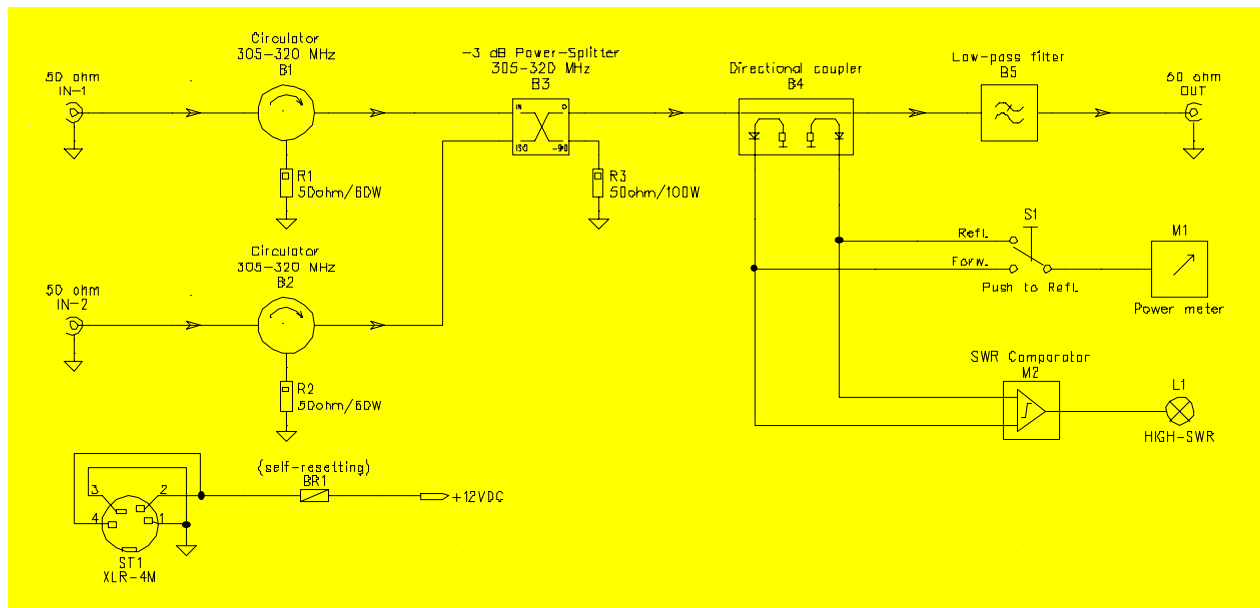
The Transmitter-Combiner output-power can be monitored on the front-panel **RF-meter** featuring two scales, for the precise reading of one-signal and two-signal working. Pushing the red button (**PUSH TO REFL**), you can read on the meter the antenna reflected-power.

The RTC 25 features also an accurate **SWR-overflow surveillance** circuit: the red LED light-on when the antenna SWR goes in excess of 1 : 2.

In the back-panel is located the feeding connector; the internal relevant fuse is a self-resetting type.

**TECHNICAL DATA:**

- Frequency range : the RTC 25 can be supplied for one of the following ranges:
  - ⇒ 170 ÷ 250 MHz (BW > 12 MHz)
  - ⇒ 305 ÷ 360 MHz (BW > 12 MHz)
  - ⇒ 470 ÷ 880 MHz (BW > 25 MHz).
  - ⇒ others on request.
- Input power max : 2 x 50 W continuous.
- Output power : -4 dB referred to the total input power.
- Spurious emissions : < -85 dBc ( -90 dBc typ.)
- In / Out impedance : 50 Ohm.
- Input VSWR : < 1.2 : 1.
- Output VSWR max : infinite, with 2 x 50 W continuous input power.
- Power source : 10 ÷ 20 Vdc, negative ground.
- Power consumption [@13V] : 50 mA max.
- Size : 243 x 87 mm (½ x 19”/2U standard-rack) x 230 mm depth.
- Weight : 4 kg approx.



*Subject to change without notice.*

