TCO-Meter

RSSI signal meter for devices TCO5807h-Rx and TCO5807m-Rx

TCO-Meter is a meter of RSSI signal for devices TCO5807h-Rx and TCO5807m-Rx manufactured after 1st November 2011, equipped with special measuring connector. Designed for precise antenna setting to obtain maximum level of audio / video signal.

SPECIFICATION:

POWER SUPPLY	5V DC, DIRECTLY FROM TCO5807-Rx PCB
POWER CONSUMPTION	100mA
DIMENSIONS (WxDxH)	27x65x10mm
DISPLAY	DUAL LED DISPLAY WITH ENHANCED BRIGHTNESS
PRESENTATION OF RESULT	p.c. or dBm
LATENCY	REAL TIME MEASURMENT

Preparing TCO-Meter for operation

Before you use TCO-Meter:
• check whether the device has not been mechanically damaged during transport
• remember that TCO-Meter is intended only for receivers TCO5807h-Rx and TCO5807m-Rx, equipped with special measuring connector (manufactured after 1st November 2011)
• be aware that the meter hasn`t got a housing and you must be careful not to damage the meter mechanically nor lead to a short circuit on the PCB

The measurement

To start measurement insert the meter into RSSI connector of receiver
• in TCO5807h-Rx RSSI connector is located on the main PCB board in upper left corner (TCO-Meter should be inserted display side facing BNC video socket)
• in TCO5807h-Rx RSSI connector is located in the back of the device, next to the SMA antenna socket (TCO-Meter should be inserted display side facing up)
The meter will start automatically. Depending on DIP switch position, located next to the LED display, the display shows the letters "PR" or "dB", which mean two operating modes:

• "Pr" (recommended mode) - measurement result will be scaled as a percentage ranging from 0 to 99%. Measurement result above 50% indicates that the signal strength level is correct and image will be perfect. Measuring result below 50% - snowing may occur - the lower the value, the disturbance will be greater. Measurement values below 5% can be regarded as no signal (no picture).
• "dB" (advanced mode) - measurement result will be calibrated in decibels power [dBm] in the range from -90dBm to-20dBm. Result above -60 dBm indicates that the signal strength level is correct and image will be perfect. Measuring result below -60 dBm – snowing can occur - the lower the value, the disturbance will be greater. Measurement values below -85 dBm can be regarded as no signal (no picture).
Switching modes can be done at any time via DIP switch. Mode change will be indicated by the appearance of "PR" or "dB" letters on display.
The measurement is performed in real time, so that you can perfectly direct antenna to get the maximum signal level.

Interference detecting and preventing

If, despite the fact that TCO-meter shows high signal level (above 50%), image is still not clear, check the effect of external disturbances. Also if greater number of TCO5807 kits operate in the same monitoring system check impact of adjacent operating channels. To check impact of adjacent channels, disconnect power from transmitter and check signal level using TCO-meter at it`s receiver. The level of this signal must be as low as possible (from 0 to a maximum 20%).
Reducing signal strength of neighboring transmitters can be done through directing(their antenna) down or up. The more we swerve transmitter`s antenna from the level, the strength of the signal arriving at receiver will be lower. You can also use larger spaces between operating channels (1-3-6).

General terms and conditions of a warranty
Camsat company gives a warranty of 24 months for TCO-Meter

1. In case of detecting incorrect work of a device, before giving the device to the service, it is necessary to make sure that everything was done in accordance with the instruction manual.
2. In case of giving or sending the faulty device to be repaired, it is indispensable to enclose a detailed description in the written form including faulty action of the device with taking into consideration work environment and the way in which they can be seen.
3. One can use the warranty if he shows the proof of purchase (a receipt) with the claimed device including the purchase date and a description of the damage.
4. The warranty repair includes only damages resulting from causes included in the sold device.
5. The warranty repair will be made in the shortest time possible not exceeding 14 days counting from the date of accepting the device to be repaired in the service. In case of a necessity to import parts, the repair date can be exceeded. After making the repair, the warranty period is exceeded by the time of repair.

6. The guarantor is not responsible for losing configuration settings of the device resulting from the repair of the device or its damage.
7. The guarantor can refuse making the warranty repair or completely renounce from the warranty in case of stating that seals on the devices or subsystems included in it are broken.
8. All remarks concerning the service and resulting from the warranty are made only in the service of the Camsat company.