AC-RADA485

Wireless Telemetric Modem

AC-RADA485 is designed for wireless control of high speed cameras over the radio-link on ISM 869 MHz band. It supports 10 channels within 869.4 to 869.65 MHz frequency band. Each channel has factory defined opertaing frequency. It has bi-directional RS485 and RS232 interface. Designed for operation in Point- Multipoint configuration.

Contents of AC-RADA485 package:

- Bi-directional telemetric module with RS485, RS232 and TTL port
- Stub omnidirectional antenna (up to 6km distance)
- User's Manual

This telemetric system has been created for the demands of professional CCTV systems with high speed cameras and recorders, where stable and unattended control over radio-links is required. The possibility of use up to 10 independent operating channels with relation to very high transmission quality makes AC-RADA485 very suitable for almost each monitoring system of high demand with high speed cameras as well as with industrial automatic control systems.

Specification :

Modulation	RC2FSK
Power	<200mW / <500mW
Input-Output	RS485 , RS232, TTL 5V
Antenna Input	SMA M/ 50 Ω
Transmission	Half-Duplex
Baudrate	1200 to 9600 bps
Power supply	10-12V / 500mA DC
Operating Temperature	-20 °C ÷ + 50 °C
Dimensions	125x105x60 mm
Weight	0,4 kg

Preparing modules for operation:
It is recommended to perform the first start-up and configuration works in workshop conditions over short distances between devices. This can save the valuable time in configuration of AC-RADA485 for various cameras used in video monitoring.

- Fix and direct the antenna in such a way to get a „line of sight" between the two.
- Connect the RS485 wires appropriately to the modules' terminals (A, B)
- Connect the sources of signal (control keyboard – camera).
- Connect the power adaptor to the telemetric modules, than to the wall outlet.
- LED indicator on panel indicates the data being transmitted. When the system is configured correctly, LEDs on both modules should light simultaneously in red in the moment of control of cameras.
- Check the correctness and quality of control.
- Upon completion of setup changes, reset the device by disconnecting of power supply.

Sometimes it is necessary to change the basic parameters of transmission protocol as well as operating channels. Please use the Table below.

To set the basic parameters of telemetric protocols (of cameras, or recorders), use Dip switches. It works, among others, with the following protocols: PELCO-D , PELCO-P , SAMSUNG , COP-2 , Santachi , PANASONIC , Longcomity , HUNDA600 , LILIN , VICON , MOLYNX , KALATEL , VCL , Reserved , COP-1 , Ultrak and others., Dynacolor, etc.
Dip switch settings:
Dip switch: 2,3,4 ,5 – setting of operating channel
Dip switch: 8 - parity check (8E1 - 0 , 8N1 - 1 – Pelco)
Dip switch: 6,7 – baudrate

NOTE: Readout of Dip switches positions is executed upon switching power on. That`s why changes to the switch settings are to be made with power switched off.
Sometimes, in case of bidirectional protocol, it is necessary to short the pin 1 and 2 on J3 terminal strip using "computer-type" jumper. An access to this strip is only possible after removal of upper metal casing.