CD 04

Wireless Telemetric Modem

CD04 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 CD04 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 CD04 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

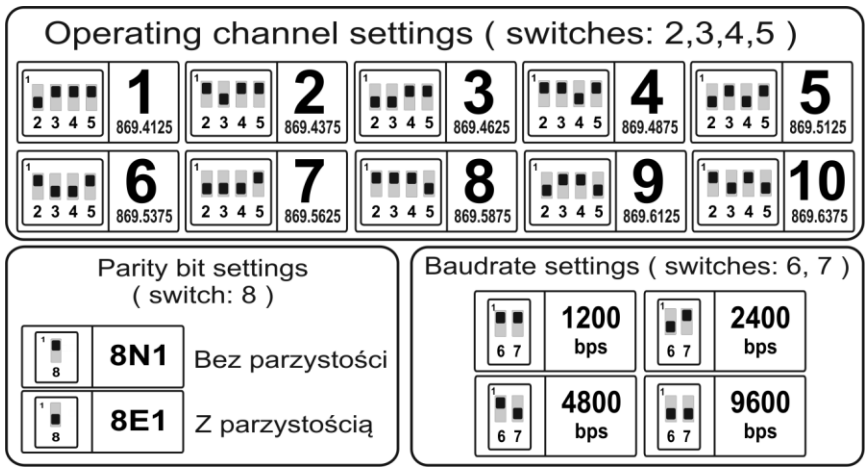
Preparing modules for operation:
It is recommended to perform the first start-up and configuration works in workshop conditions over short distances between devices. This can save the valuable time in configuration of CD04 for various cameras used in video monitoring.

- 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.



Manufacturer:
CAMSAT Gralak Przemysław
Ul. Ogrodowa 2a
86-050 Solec Kujawski
Offer and infrmation: www.camsat.com
Service: serwis@camsat.com.pl

DEKLARACJA ZGODNOŚCI

DECLARATION OF CONFORMITY

Niżej podpisany, reprezentujący firmę:
The undersigned, representing the manufacturer:

CAMSAT Przemysław Gralak
ul. Ogrodowa 2a 86-050 Solec Kujawski Polska

niniejszym deklaruję z pełną odpowiedzialnością, że urządzenie:
herewith declares under our sole responsibility that the product:

Nazwa urządzenia: Modem telemetryczny
Product name: *Telemetry modem*
Typ: **CD04**
Model:

jest dopuszczone do pracy na terenie EU i jest zgodne z zasadniczymi wymaganiami oraz innymi stosownymi postanowieniami dyrektywy 1999/5/WE :
is allowed to work in EU and it is in conformity with the provisions of the following 1999/5/EC directives:

Wymagania zasadnicze: **- artykuł dyrektywy 1999/5/WE** *Essentials requirements* *- article of Directive 1999/5/EC*	**Zastosowane normy** *Applied Standards*	**Oceniane dokumenty** *Evidence Documentation*	**Ocena** *Result*
Kompatybilność Elektromagnetyczna – art.3.1b *Electromagnetic compatibility*	ETSI EN 301 489-1 V1.6.1 ETSI EN 301 489-3 V1.4.1	Sprawozdanie z badań: *Test Report:* IŁ Nr 01500348/2	Zgodność *Conformity*
Efektywne wykorzystanie zasobów częstotliwości – art.3.2 *Effectively RF spectrum use*	ETSI EN 300 220-1 V2.1.1 ETSI EN 300 220-2 V2.1.2	Sprawozdanie z badań: *Test Report:* IŁ Nr 01500348/1	Zgodność *Conformity*
Ochrona zdrowia użytkownika - art. 3.1a Protection of the heath of the user	PN – EN 50371:2004	Sprawozdanie z badań: Test Report: IŁ Nr 01500348/3	Zgodność *Conformity*

Zakres przestrajania częstotliwości nadajnika i odbiornika: 869,40 MHz – 869,65MHz
Transmitter and receiver frequency alignment range:
Moc nadajnika (zmierzona): 169,8 mW (22,3 dBm)
Transmitter power(measured):

Jednostka notyfikowana biorąca udział w ocenie zgodności:
INSTYTUT ŁĄCZNOŚCI
ul. Szachowa 1, 04-894 Warszawa
Numer jednostki notyfikowanej: 1471
Notified Body number: 1471

CE

Wydane przez Instytut Łączności potwierdzenie zgodności nr 081/2008 oraz sprawozdania z badań dostępne są do wglądu w siedzibie firmy CAMSAT Gralak Przemysław.

Osoba odpowiedzialna: **Przemysław Gralak**
Name of responsible person
Stanowisko: **właściciel/owner**
Position:
Podpis/Signature

Miejscowość i data:
Solec Kujawski 23.08.2010r

General terms and conditions of a warranty

Camsat company gives a warranty of 24 months for transmission sets of the following series:
TCO 5807, CAM 5816, CDS 5021, CD04, CD06, CDS-5IP

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.