CR 210-DSE

product data sheet

GENERAL DESCRIPTION:

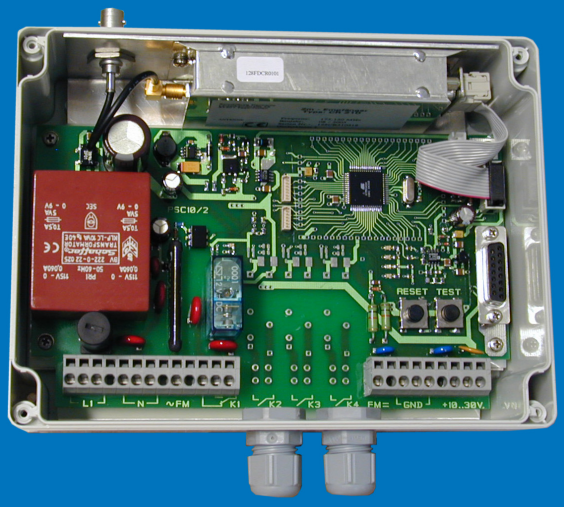
The digital siren control receiver CR 210-DSE is a fixed, non-portable receiving radio unit. It is used for remote control purposes in digital radio alerting systems.

It is equipped with a RF-receiver for one single receiving frequency and one demodulator for DFSK modulation.

The radio paging code Nr. 1 (POCSAG) is used for transmitting the remote control signals.

Decoding is effected in accordance with the technical BOS guideline "Geräte für die digitale Funkalarmierung", dated March 2000.

- BOS approval number: DSE-06/05
- The receiver is conform to the requirements of the VDE-regulations and the ETS-guidelines 300341.
- The single channel receiver can be operated on a frequency between 146 and 174 MHz.
- When you place your order, its absolutely necessary to specify the exact frequency.
- Channel spacings of 20 KHz or 12,5 KHz are possible
- The decoding sensitivity is better than 0,25 µV into 50 Ohm. This is very high for a digital system.
- It is the result of a special hardware- and software-filtering of the received data stream.
- You can configurate a baud rate of 512 bd or 1200 bd.
- You can program up to 20 calling addresses and 4 siren programs.
- The following parameters are customer-specifically programmable:
  - Baud rate 512 or 1200
  - Up to 20 calling addresses
  - Up to 4 siren programs
  - Number of alarm storages



CONSTRUCTION:

Construction:

The conception of the device guarantees that it works even under unfavourable conditions.

All functions are controlled by a modern RISC-processor.

It also decodes the POCSAG-datastream.

The different components are mounted on a metal plate which is also used as a RF-counterbalance for a mountable antenna.

The compact design allows an easy assembly and maintenance of the device. For configuration and troubleshooting purposes a service program is available.

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CR 210-DSE

Technical data

POWER SUPPLY	$11V_{DC}$ – $30V_{DC}$ 175V ~ - 255V ~
POWER CONSUMPTION	relay on 2,0VA at 230V 8,6VA relay off 1,4VA at 230V 8,0VA
TEMPERATURE RANGE	-40°C - +70°C
FREQUENCY STABILITY MAX	±900Hz –40°C - +70°C typical ±700Hz
FREQUENCY RANGE	146MHz - 174MHz
NUMBER OF HIGH FREQUENCY CHANNELS	1
CHANNEL SPACING	20kHz (12,5kHz possible)
INTERMEDIATE FREQUENCY	1. ZF = 21,4MHz 2. ZF = 455kHz
MODULATION	DFSK
BANDWIDTH	±7,5kHz
INPUT IMPEDANCE	50 Ohm
ANTENNA CONNECTO	BNC-socket
DECODING SENSITIVITY AT DFSK	at ±4kHz frequency deviation and 20kHz channel spacing < 0,25µV Ua
SELECTIVITY AT FM	< 0,4µV Ua at 20dB S/R
ADIACENT CHANNEL SELECTIVITY	> 86dB typical 88dB
SPURIOUS RESPONSE REACTION	to 4GHz >88dB typical 90dB
NTERMODULATION RESPONSE REACTION	> 73dB
IMAGE RESPONSE RATIO	> 90dB
BLOCKING	>91dB Typisch 95dB bei 1MHz Abstand
CO-CHANNEL REJECTION	-4dB
DISTORTION FACTOR	> 2%
SPURIOUS RADIATION	< 2nW
CALLING SYSTEM	POCSAG
ADDRES CODING	about PC
CONTACTS	1-4 potentional free contacts max. 250V~/5A $30/110/220V_{DC}$ – 5/0,2/0,1A
CASE	plastic case Kunststoffgehäuse for wall mounting
IP NUMBER	IP 54
DIMENSIONS	150mm • 200mm • 78mm
WEIGHT	1,2 kg
BOS APPROVAL NUMBER:	DSE-06/05
ETS - STANDARD	300341

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