RCMS
Radio Control Modular System

THE ACAT 2210™
MASTER CONTROL MODULE

The ACAT2210™ Master Control Module is the heart of the Radio Control Modular System, RCMS™. Providing RF communication with both a control center and other remote stations, the ACAT2210™ forms the core of sophisticated radio control system for both monitoring and control function. The ACAT2210™ utilizes state-of-the-art technologies, such as high speed CMOS microprocessors and surface mount devices (SMD), to ensure high performance levels and reliability.
It can operate as a stand-alone remote unit using its built-in eight status inputs and two control outputs, or can be easily expanded via a simple flat cable to 64 inputs and 64 outputs by adding ACATSI8™ (8 status inputs) and ACATCO8™ (8 control outputs) expansion modules. Analog inputs and Analog outputs modules are also available. The built-in FM RF transceiver enables the ACAT2210™ to maintain constant contact with other remote stations or with a control center. The ACAT2210™ transmits a digital message report whenever a change of state (COS) condition occurs at any of the status inputs. The ACAT2210™ FM receiver allows it to receive an acknowledgement of the message as well as periodic interrogations from the control center. The ACAT2210™ is designed with the user in mind. Installation is simple, using the mounting bracket enclosed with the unit. To set the unit cover and set the DIP switches according to easy to use charts. The ACAT2210™ offers you reliable and dependable remote station of the Radio Control Modular System-RCMS™.

SPECIFICATIONS:

ACAT2210™ Master Control Module

General:

Mechanical Dimensions: 9.625"(245mm) Height
4"(100mm) Width
2.125" (53mm) Depth

Weigh 2.2 LBS (1 kg)

Operation Temperature -20°C to 60°C

Relative Humidity 90%(without condensation)

Power supply:

Operating Voltage : 10-15 VDC

Current Consumption: 1A during TX, 30mA STBY Battery

Charger**:** 13.7V , 180mA MAX

Digital Encoder/Decoder:

Address Capacity: 2048 Stations in 4 systems

Baud Rate: 600

Word Format 32 bits with BCH and parity

Inputs:

Status Inputs: 8, <3KΩ= CLOSED
>40KΩ= OPEN

Input Expansion**:** up to 64

Transient Protection 2.5KV (IEEE 472)

Outputs:

Control Outputs: 2, Open Drain 60VDC, 70mA

Output Expansion: Up to 64 dry contact relays

Transmitter:

Frequency: VHF: 136-174 MHz,
MB: 66-88 MHz,
UHF: 403-512 MHz (optional)

Modulation: FM, FSK 900, 1500Hz +PWM

Bandwidth: 25KHz/12.5KHz

RF output @ 12.5VDC: 5W

Frequency Stability ±5ppm

Spurious & Harmonics -50dB

Output Impedance: 50Ω

Receiver:

Channel Spacing: 25KHz/12.5KHz (optional)

Spurious & Image Rejection: 65dB min

Frequency Stability: ±10 ppm

Selectivity (12db SINAD) >65 dB @±25KHz

Sensitivity (12db SINAD) 0.35 micro V

Frequency: VHF: 136-174 MHz,
MB: 66-88 MHz,
UHF: 403-512 MHz (optional)

Input Impedance: 50Ω

ACATO8™ Control Outputs Expansion Module

Power supply:

Operating Voltage: 10-15VDC supplied From the ACAT2210 via the flat Cable.

Current Consumption: 10mA STBY
20mA Max

Outputs:

Outputs Type: 8,Dry Contact Bistable Relays.

Contact Rating: 250 VAC, 2A max

Relay Mode: Programmable Latched, Common Latched, or Momentary .

Momentary Time: 2 Seconds

ACATSI8™ Status Inputs Expansion Module

Power supply:

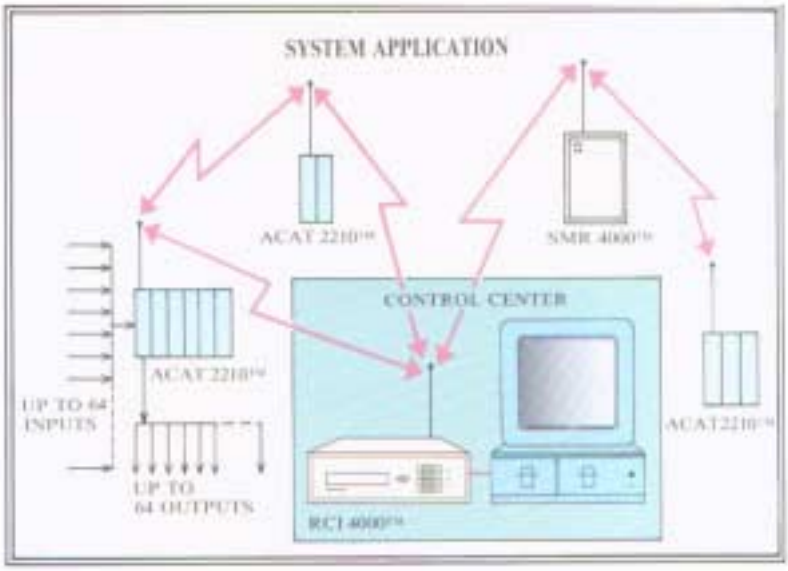
Operating Voltage: 10-15VDC supplied From the ACAT2210via the flat Cable.

Current Consumption:10mSTBY
20mA Max

Inputs:

Status Inputs: 8, <3KΩ=CLOSED
>40KΩ= OPEN

COS polarity: Programmable per input masked, open to close ,close to open or bipolar.



RCMS ™
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KP ELECTRONIC SYSTEMS LTD

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