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# BECKER COMPACT LINE

## COMMUNICATION & NAVIGATION



### CM 4201 - Remote VHF Transceiver

■ This transceiver enables pilots and installation engineers to customize the VHF communication radios in any aircraft. The ideal combination of output power and low cost, provides the best value and operating characteristics for any particular aircraft an mission profile.

The system is ideally suited for installations where minimum panel space is to be used. It utilizes a small, lightweight CU 5209 control unit, which fits into standard 2 1/4" (57 mm) round instrument panel cut-out, and is only 2 1/2" deep.

Special functions accessible via the front panel allow to adapt a personal set-up.

The lightweight remote transceiver unit, CM 4201 is mated with this control head, to complete the system. It can be installed at any convenient place in the aircraft.

The CM 4201 offers 760 channels in the 118.000 MHz to 136.975 MHz frequency range with channel spacing of 25 kHz, and has an output power of 5 - 7 Watts carrier (16 W PEP) with 99 channel memories.

The remote control VHF transceiver is controlled from a master unit via a RS 232 interface.

For truly compact installations, this transceiver can be combined with other Becker primeLine II equipment such as NAV-VOR/ILS navigation, ADF, and ATC transponder which have similar control units, providing a pleasant presentation in the panel.

The remote transceiver unit can be controlled by other types of CDU or FMS devices like a new Becker RMU 5000 (COM-NAV-XPDR/ADF Remote Management Unit), and is ideally suited for use as essential sensor in flight management systems.

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AVIONIC SYSTEMS

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# Becker Avionic Systems

## CM 4201 - Remote VHF Transceiver

### General Data:

- Frequency Range: 118.000 – 136.975 MHz
- Channel spacing: 25 KHz
- Number of channels: 760
- Memory channels: 99, with scanning function
- Operational mode: Simplex A3E
- Power Supply: DC 13,75 V
  
- Temperature range  
Operational: – 15 ... + 55 °C  
Storage: – 40 ... + 55 °C
- Relative humidity: 95 % at + 40 °C
- Dimensions: 165 x 85 x 277 mm
- Weight: approx. 4 kg

### Receiver Data:

- Sensitivity: < 1.5 µV at 6 dB S+N/N, m = 0,3
- IF Bandwidth, 6 dB: ± 8 kHz
- Selectivity +/- 25 KHz: > 60 dB
- Distortion: < 10 %
- AF Frequency range: 6 dB, 300 Hz ... 2800 Hz  
20 dB, 4000 Hz
- AF Output Power: 3 Watt into 4 ohms

### Transmitter Data:

- Output power: > 5 W carrier power
- Depth of modulation: 80 % ... 95 %
- Mod. Frequency range: 300 Hz ... 2800 Hz
- Distortion: < 10 % @ 90% modulation
- Total harmonic power: max 4 nW
- Output impedance: 50 Ohms
- Mismatch load: Full power into 2.5:1 VSWR  
Infinite VSWR without damage

### Certifications:

- TSO - 2C37d, ED-23 A, Equipment Class 4
- TSO - 2C38d, ED-23 A, Equipment Class C
- EUROCAE/RTCA ED-14C/DO-160 C
- EUROCAE/RTCA ED-12A/DO-178
- BZT: A 107 417 D LB

### Control heads:



RMU 5000



CU 5209

### Dimensions:

