

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Middle range multi-channel radio modem **RS485** WITHOUT A LICENCE





MC 120

The MC120 enables two-way half duplex wireless data transmission over a range of 1500 m. It integrates a multi-channel radio transceiver, a digital processing unit and a wide power supply range on the same board.

It is available as an **IP65 enclosure** ready for approved use with integrated or remote antenna.

This modem uses the **863/870 mHz** (Europe) band according to the European directive RTTE EN300-220/EN 301-489.

Data transfer is performed via an RS232/RS485 serial port or USB interface.

Configuration is performed by **AT commands**.

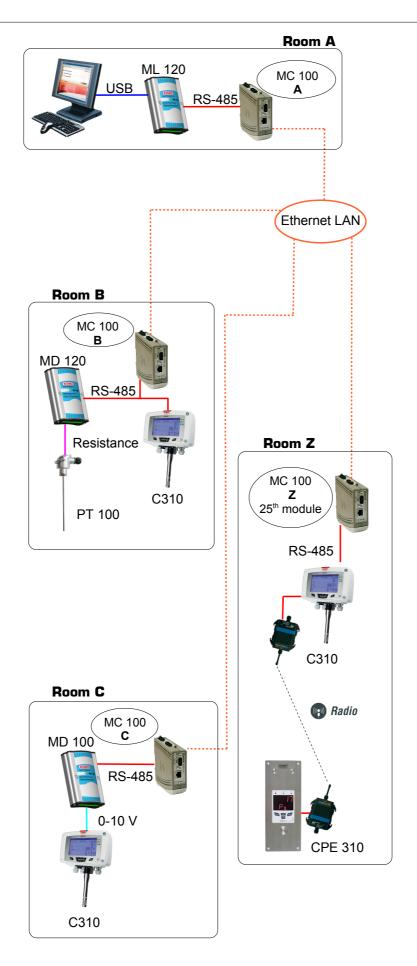
It can be used WITHOUT A LICENCE and covers most "middle-distance" wireless data transmission applications, from remote meter reading type point to point transmission to constitution of cordless multipoint local networks, in sector of activity such as automation, robotics, remote management... and more generally all types of applications requiring middle range or in a particular disturbed environment.

TECHNICAL FEATURES

| RF | |
|--------------------------|--|
| Programmable frequencies | 863 to 870 MHz |
| Radiated RF power | 50mW (+17dBm) |
| Sensitivity | -105dBm |
| Number of channels | 14 (WB) – 70 (NB) |
| RSSI | Available through AT commands |
| Modulation | FSK |
| Radio data rate | Up to 57 600 bits/s |
| Embedded protocols | Enhanced and versatile RF Comms manager |
| Embedded profiles | Multimode modem |

| Modem interface | |
|------------------|--|
| Serial link rate | 0,6 to 115,2 kBps |
| Serial ports | RS232 (TxD, RxD, RTS, CTS) or RS485 USB 'Virtual port COM' |
| Flow control | None or RTS/CTS |
| Configuration | Through AT commands |
| Modes | Transparent or addressed |

| General information | |
|-----------------------|--|
| Supply voltage | 8 to 32 V |
| Consumption | 60 mA in transmission, 30 mA in reception (under 8V) |
| Operating temperature | From -20 to +70°C |
| Range | 1500 m in free field |
| Size | 145 x 100 x 40 mm + 85mm antenna |
| Packaging | IP65 box |
| Standard compliance | EN300-220 / EN301-489 (Full certified modem) |





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