

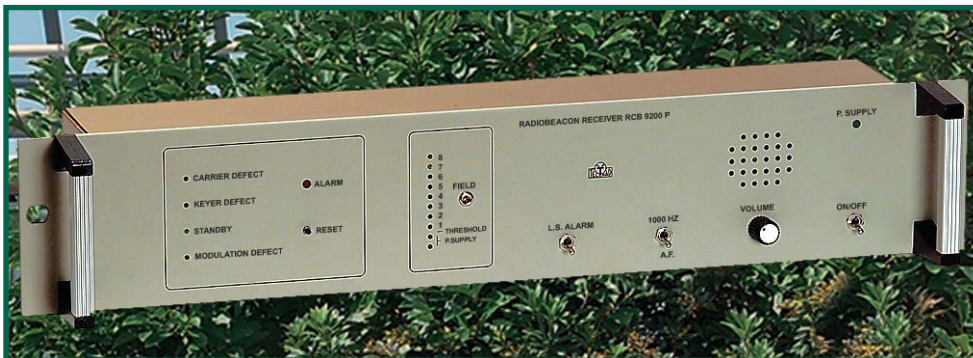
N.D.B. CONTROL RECEIVERS



The receivers **model 9200** permit to control the operation of a N.D.B. in A1A or A2A mode.

The monochannel receiver **RCB 9200 P** is equipped with a synthesized master oscillator, it is designed to control only one N.D.B.

To control several N.D.B's (maximum 16), we advise to use the receiver **RCB 9200 B** which is driven by a programmable synthesizer with channel scanning : the receiver will be associated with the active antenna **ANT 9200**.



Information on operation of the N.D.B. may be displayed by means of indicator light located on the front panel of the receiver (model P) :

- carrier failure, due to a decrease of the received field,
- keying defect : no keying/permanent modulation (A2A),
- changing of the N.D.B. onto standby,
- changing of the N.D.B. onto mains,
- modulation defect (A2A),
- general alarm,
- visualization of the level of the field received.

These indicator lights have been changed for a LED (model B). A control switch permits to activate a buzzer in case of alarm.



GENERAL FEATURES

The following informations are available on the telemonitoring connector of the rear panel :

- correct operation of the N.D.B.,
- faulty operation of the N.D.B.,
- N.D.B. operating on stand-by,
- N.D.B. operating on mains,
- received field (analog output), AF loudspeaker output for a short distance operation.

These data, as well as programming, are also available through an interface RS 232 (model B).

The receivers model RCB 9200 have the shape of a drawer unit, standard rack 19", height 2 units.

RCB 9200 B - ELECTRICAL CHARACTERISTICS

- Oscillator driven by a frequency synthesizer. It can be programmable either in local or remote mode, possible control of 16 N.D.B.'s.
- **Frequency range :**
200-700 kHz by step of 100 Hz
- **Sensitivity :**
≥ 10 dB for a signal 1000 Hz, 30% modulation, level 5μV (A2A mode)
- **Operation range :**
5 μV to 200 mV
- **Selectivity A1A mode :**
 - 6 dB : $\geq \pm 75$ Hz
 - 60 dB : $\leq \pm 225$ kHz
- **Selectivity A2A mode :**
 - 6 dB : $\geq \pm 1,5$ kHz
 - 60 dB : $\leq \pm 3.75$ kHz
- **Input impedance :**
50 ohms asymetrical with power supply output 24 V d.c. for active antenna
- **Frequency stability of the oscillator :**
 ± 5 ppm from -20°C to +70°C
- **Réjection of the image frequency :**
≥ 80 dB
- **AF listening :**
AF listening level on incorporated loudspeaker adjustable up to 250 mW
- **Informations on front panel :**
 - carrier defect,
 - keyer defect,
 - N.D.B. on stand-by,
 - N.D.B. on mains,
 - modulation defect (A2A mode),
 - general alarm,
 - received field level,
 - decoding of the identification signal.
- **Non-memorized remote control informations :**
 - normal operation,
 - faulty N.D.B.,
 - operation on stand-by,
 - operation on mains,
 - programming of the receiver and state of the N.D.B. listened to through RS 232.
- **Power supply (negative to the ground) :**
21-31 V, about 0.2 A
- **Optional mains power supply**
- **Height :**
88 mm
- **Width :**
484 mm
- **Depth :**
about 500 mm
- **Weight :**
about 3.5 kg

RCB 9200 P - ELECTRICAL CHARACTERISTICS

- Oscillator driven by a frequency synthesizer. It can be programmable in local mode only, control of only one N.D.B.
- **Frequency range :**
200-535 kHz (by step of 100 Hz)
- **Sensitivity :**
≥ 10 dB for a signal 1000 Hz, 30% modulation, level 5uV (A2A mode)
- **Operation range :**
5 uV to 100 mV
- **Selectivity A1A mode :**
 - 6 dB : $\geq \pm 75$ Hz
 - 60 dB : $\leq \pm 225$ kHz
- **Selectivity A2A mode :**
 - 6 dB : $\geq \pm 1,5$ kHz
 - 60 dB : $\leq \pm 3.75$ kHz
- **Input impedance :**
50 ohms asymmetrical with power supply output 24 V d.c. for active antenna
- **Frequency stability of the oscillator :**
 ± 6 ppm from -20°C to +70°C
- **Rejection of the image frequency :**
≥ 80 dB
- **AF listening :**
AF listening level on incorporated loudspeaker adjustable up to 250 mW
- **Informations on front panel :**
 - carrier defect,
 - keyer defect,
 - N.D.B. on stand-by,
 - N.D.B. on mains,
 - modulation defect (A2A mode),
 - general alarm,
 - received field level.
- **Non-memorized remote control informations :**
 - normal operation,
 - N.D.B. defect,
 - operation on stand-by,
 - operation on mains.
- **Power supply (negative to the ground) :**
21-31 V, about 0.2 A
- **Height :**
88 mm
- **Width :**
484 mm
- **Depth :**
about 160 mm
- **Weight :**
about 1.5 kg



RCB 9200

RCB 9200 B - RCB 9200 P RECEIVERS

- **Climatic conditions :**
operation guaranteed between -20°C and +55°C
95% RH at 40°C (without condensation)
- **Storage :**
-40°C at +80°C

RCB 9200

ANT 9200 - GENERAL CHARACTERISTICS

- **Frequency range :**
100 kHz - 30 MHz
- **Gain :**
Tunable by modifying the length of the active cord
- **Impedance :**
50 ohms
- **Power supply :**
21-31 V, through coaxial cable (negative to the braid)
- **Height :**
820 mm
- **External diameter of the support :**
45 mm
- **Internal diameter of the support :**
40 mm (external diameter of the support)
- **Maximum encasing of the support :**
100 mm
- **Weight :**
0.6 kg
- **Climatic conditions :**
operation guaranteed between -20°C and +55°C
95% RH at 40°C (without condensation), leaking proof
- **Storage :**
-40°C at +80°C

ERCB 9200 OFFSET CONSOLE

The offset console permits to visualize, on remote mode, the state of the supervised radiobeacon. The alarm light indicator can be connected to sonorous alarm by switch.

The console supply is supplied by the associated receiver.

- Non-memorized remote control information :
 - power supply presence,
 - normal operation,
 - N.D.B. defect,
 - operation on stand-by,
 - operation on mains.

