

TELERAD

Aeronautical and Maritime Radiocommunication Systems

V/UHF RECEPTION MULTICOUPLER

MC880A-1

OVERVIEW

The reception multicoupler MC880A-1 permits, from a single antenna input, to have 16 independent radiofrequency outputs available.

Thus, one may couple on a single antenna, 1 to 16 receivers operating in the frequency range of the multicoupler.

The specific structure of this unit, made up of independent modules, permits to obtain an unavailability time practically nil.



The MC880A-1 is made up of a pluggable drawer unit MR880A-1, standard rack 19", height 2 units.

On the rear panel, one can find the sockets to connect to the power supply units, the remote control sockets and the VHF and UHF antenna connecting sockets.

On the front panel, a 1/2 rack panel which includes the ON/OFF switch, the DC voltage switch, the diodes dispatching system of the 24 V_{DC}, the two AC voltage light indicators and the alarm light indicators giving the state of the multicoupler.

Two 1/4 rack drawer units, the amplifier AP880-1 and the filter FL880A-1, pluggable from their front side, are housed in the other half-part of the support frame MR880A-1.

RADIOELECTRICAL CHARACTERISTICS

Frequency range:

118-175 MHz and/or 225-400 MHz

Gain:

2 dB; ± 1.5 dB

Noise factor:

< 9 dB

3rd level interception point:

> 30 dBm

Inter-channel isolation:

> 25 dB

DC power supply:

24 V_{DC}; ± 20 %; < 1 A

50 Hz mains supply:

220 V_{AC}; ± 10 %; < 0.4 A

Battery-mains automatic switching unit

MECHANICAL CHARACTERISTICS

The multicoupler is a frame with the dimensions of a 2-unit high standard 19" rack.

Height:

88 mm

Width:

483 mm

Depth:

500 mm

Weight:

10 kg

CLIMATIC CHARACTERISTICS

Operating temperature:

-20 °C at +55 °C. 95 % relative humidity at +40 °C (non-condensing)

Storage:

-40 °C to +80 °C