

**ASYNCHRONOUS MODEM
TYPE****MAS-1****GENERAL**

The MAS-1 is an asynchronous narrowband modem with frequency-shift keying (FSK) modulation for the transmission of data at speeds of up to 1200 baud. The speed and frequency of the modem depends on the type of MANP module incorporated.

The data interface complies with specifications V.24 and V.28 of the ITU-T and RS-232C of EIA.

The modem is equipped with test devices for a rapid operational check. These devices make it possible to carry out loops and to generate test signals for fault diagnosis and carry out receiver adjustment.

The MAS-1 consists of a shelf that is one standard unit (s.u.) in height and 19" in width.

The MANP module, incorporated in the shelf, is formed by a single-printed circuit board where all the elements necessary for the transmission of a succession of binary data in a voice-frequency channel are located.

The front plate of the modem includes elements necessary for the adjustment of the transmission and reception levels, the configuration of the modem such as the RTS-CTS delay selection, test selection, etc., and the optical indication of the tests and logical signals of the interface.



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TECHNICAL CHARACTERISTICS

DATA TRANSMISSION

Data format	Binary, serial. Asynchronous and anisochronous.
Modulation	Frequency-shift keying (FSK).
Transmission speed	50, 100, 200, 300, 600 or 1200 baud, factory set.
Transmission Mode	Full-duplex over 4 wire and Half-duplex over 4 or 2 wire.
Operation Mode	By carrier detection in point-to-point links or point-to-multipoint links.

LINE INTERFACE

Central Frequency	In accordance with standard channelling, in voice or superimposed, factory set.
Transmission level	-30 dBm to 0 dBm, over 600Ω. Continuous adjustment in two ranges.
Output impedance	600Ω or high impedance.
Receiver sensitivity	-45 dBm to 0 dBm. Continuous adjustment in three ranges.
Input impedance	600Ω or high impedance.
Distortion	< 3%
Insulation voltage	IEC 870-2-1 class 2. 1 kV _{rms} / 50 Hz / 1 min
Impulse voltage	IEC 870-2-1 class 2. 2 kV _p (1.2 / 50 μs)
Fast transient bursts	IEC 870-2-1 level 3. 2 kV _p .
Damped oscillatory waves	IEC 870-2-1 level 2. 1 kV _p .
Data interface	In accordance with ITU-T Rec. V.24 / V.28
Power supply	10 V _{DC} to 36 V _{DC} or 36 V _{DC} to 72 V _{DC}
Operating Temperature and humidity	-5 °C to +45 °C. < 95% non condensing.
Dimensions	465 x 44 x 324 mm
Weight	3 kg.