

Marconidata Equipment H6010 Series

The Marconidata H 6010 series comprises two versatile medium speed data transmission terminals, which can form the basis of a wide variety of data communication networks. These are the H 6010 Transmit Terminal and the H 6011 Receive Terminal. They may be used to transmit data at up to 1200 bauds over public or private telephone circuits, in association with Marconidata U 1110 Series modems, the British Post Office Datel Modem No. 1 or other similar modems conforming to C.C.I.T.T recommendations.

The H 6010 Transmit Terminal transmits data from a built-in paper tape reader. It will accept all standard widths of paper tape and any 5, 6, 7 or 8 unit code with or without parity. The normal modulation rate is 600-1200 bauds resulting in a character transmission rate of up to 150 characters per second, the rate being dependent upon the input code. A simple control has been provided which enables operation at half speed, for example to maintain transmission when line conditions deteriorate.

The H 6011 Receiver Terminal may be fitted with a built-in paper tape perforator

giving a 'clean tape' output at 120 characters per second. Alternatively it may be connected 'on-line' to a computer, or to some other peripheral device, e.g a line printer, by means of a suitable integrally fitted interface adaptor unit.

A feature of this system is the excellent automatic error control employed, which results in a very low residual error rate. This includes an optional 'echo check' facility, where the Receive Terminal incorporates a paper tape perforator, which automatically checks operation of the perforator. Two co-ordinate parity coding is used, the data being transmitted in blocks of 32 characters. The Receive Terminal accumulates and stores the data, a block at a time, in one of two ferrite core stores and acknowledges receipt of each block by sending an 'accept' or 'reject' signal over the supervisory channel.

A data block, when accepted, may be output from the Receive Terminal either in its entirety or in part at up to 50,000 characters per second, under the control of the peripheral device. This minimizes interruption to processing when operating 'on-line' to a computer.

A variant of these equipments providing an increased data transfer rate is also available. This employs a block length of 128 characters.

FEATURES

Receive Terminal can operate 'on-line' to a computer, transferring up to 32 or 128 characters in each transfer cycle at up to 50,000 characters per second.

Simple to operate by a minimum of illuminated push-button control/indicators.

Automatic answering of telephone calls reducing operator attendance to an absolute minimum.

Extremely low residual error rate.

All 5, 6, 7 and 8 unit codes are acceptable.

Built-in paper tape reader and perforator with power spooling will handle all standard widths of tape.

Will tolerate unlimited line loop delay.

Attractively styled and quiet in operation.

DATA SUMMARY

Synchronizing and phasing:

Automatic on both data and supervisory channels.

Input: Paper tape.

Tape handling equipment: The reader and perforator will accept all standard widths of tape.

Input/Output code:

Any 5, 6, 7 or 8 unit code (with or without parity bit).

Modulation rate:

300 to 1200 bauds.

Data transfer rate:

150 characters per second peak, up to 117 characters per second mean.

Residual error rate:

Not worse than $1:10^7$ characters with line bit error rate not worse than $1:10^4$.

On line read-out rate:

Up to 50,000 characters per second.

Power supplies:

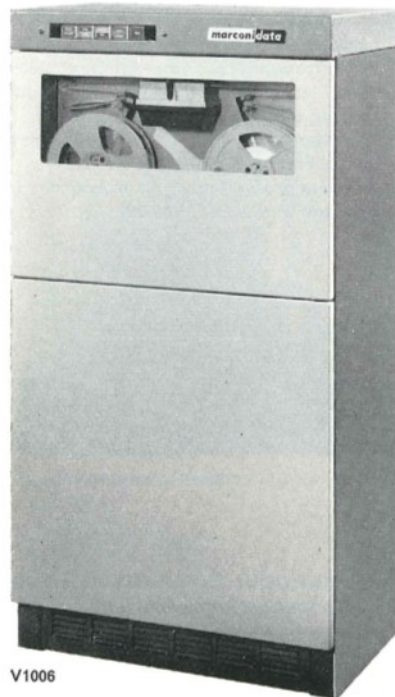
105-125 V or 210-250 a.c., 50 or 60 Hz (as ordered).

Power consumption:

H 6010, 200 VA; H 6011, 250 VA.

Dimensions:

H 6010 and H 6011
 Height 3 ft 8 in. (112 cm)
 Width 1 ft 11 in. (58.4 cm)
 Depth 1 ft 3½ in. (40 cm)



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THE MARCONI COMPANY LIMITED
 Line Communications Division

Writtle, Chelmsford, Essex
 Telephone: Writtle 451. Telex: 99201
 Telegrams: Expanse Chelmsford Telex