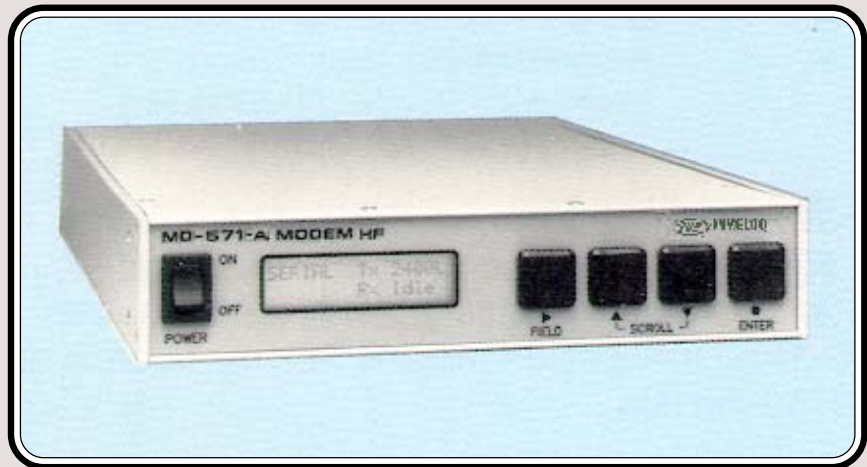




INVELCO S.A.
INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

DATA MODEM AT HIGH
SPEED SERIAL TYPE FOR
HF. DESIGNED FOR 2400
BAUDS.

WORKS WITH NORM
STANAG 4285



HIGH SPEED DATA MODEM MODEL MD-571-A

Data modem at high speed for HF. Designed for data communications on a radio circuit of up to 4.800 bauds. It uses a channel of 7.200 bps with modulation of 8 phases on a tune of 1.800 Hz. A powerful data equalizer cuts off the interference produced by multiple routes and intersymbols. It uses convolutions correction codes (FEC), interleaving and Viterbl. Decoding is determined by software, speeds between 75 and 2.400 Bauds.

IMPORTANT SPECIFICATIONS :

- Complete Duplex and Semiduplex.
- Adaptive supression filter.
- Compatible with norm
STANAG 4285
MIL STD188-110A
- Allows 6.5ms of multiple routes.
- Allows fading of up to 25Hz.
- Autorate and autointerleaving.
- Data or preamble synchronism.
- Synchronous or Asynchronous DTE interface.
- ASCII remote control.

DATA MODEM OF HIGH SPEED MODEL MD-571-A

Data speed (bps)	Full duplex codified or halfduplex codified 75, 150, 300, 600, 1200, 2400 Halfduplex, not codified: 4800.
Interleaving retard	0, 1.2 or 9.6 seconds.
Modulation.	M-ary PSK, 2400 sim/seg.
Multi-route tolerance	5 milliseconds.
Bandwidth	(300-3400 Hz).
Doppler synchronism	±75 Hz.
Tracking by Doppler effect	3.5 Hz.
Equalization.	Directed equalization of data.
Sincronising.	Synchronising on data.
FSK(FSKNS) Narrow modulation	Central frequency 2805 Hz. Displacement ±42.5 Hz.
Data speed (bps)	Fullduplex and Halfduplex 75.
Wide modulation FSK (FSKWS)	Central frequency 2000 Hz. Displacement ±425 Hz.
Data speed (bps)	Fullduplex and Halfduplex 75.
Wide alternative modulation	Central frequency..... 2000 Hz. FSK (FSKA) Displacement ±85 Hz
Data speed (bps)	Fullduplex and Halfduplex 75, 150, 300, 600, 1200, 2400.
Variable modulation FSK (FSKV)	Mark/Space programmable frequency. Range 50 - 5995 Hz, tuned in increments of 5 Hz
Data speed (bps)	Fullduplex and Halfduplex 75, 150, 300 y 600.
Reception tuning	Central frequency ± 200 Hz, tunable in increments of 10 Hz.
Dynamic range	30 db.
Correction.	Convolutional FEC, ARQ . Viterbi. Multi-route. Intersymbol. Autoequalization. Fading of the M signal. Adjacent channel interference.
Types of data input	ASCI. Baudot. Binary.
Operating modes	Facsimile. Images. Data. TIF, BMP, TARGA files. Text.
Filtering	Adaptive with excision.
Norms	STANAG 4285 (Synchronous and Asynchronous), and Requirements. MIL-STD-188-110A.