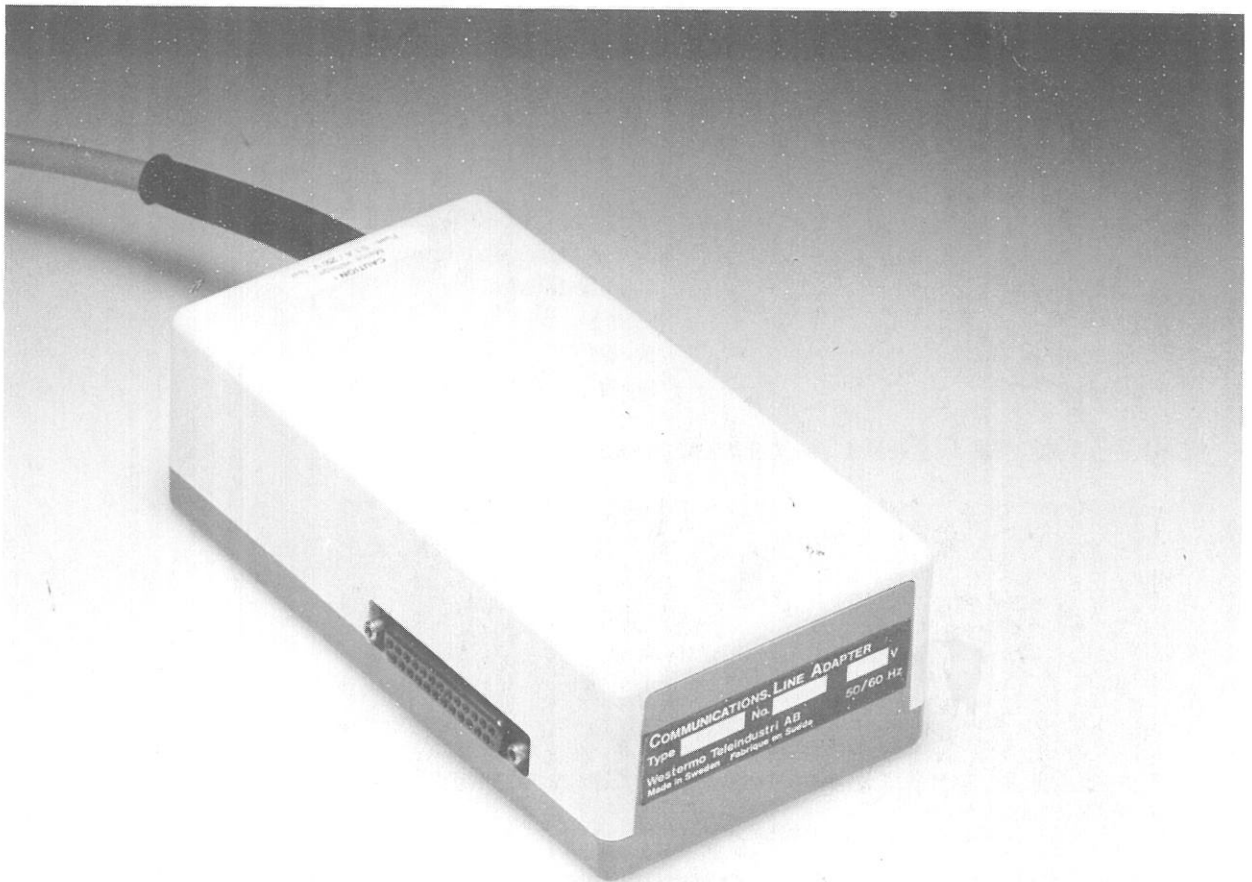


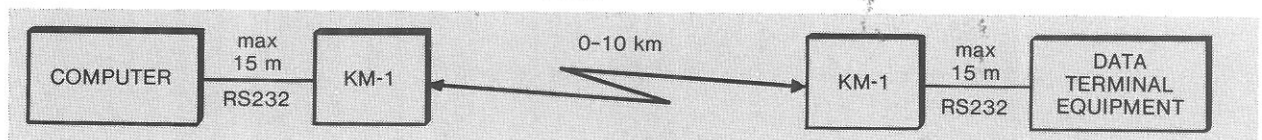
KM-1 SHORT HAUL MODEM



The KM-1 is a low cost, high-performance modem intended for use over distances up to 10 km (6 miles). It meets EIA RS232 and CCITT V.24 specifications. The unit has full duplex capability, and accepts any transmission rate up to 19200 bits/s. No speed strapping is necessary. Line driving is performed by two-way balanced current loop.

The KM-1 can be used in local communications links between computers, CRT displays, typewriters, printers etc. It is an easy-to-use, small size, and low cost unit.

TYPICAL SYSTEMS APPLICATION



FEATURES

- ☐ Asynchronous transmission
- ☐ Full duplex
- ☐ 0—19200 bps (any rate)
- ☐ EIA RS232/CCITT V.24
- ☐ Opto-Coupler Isolation
- ☐ Local links up to 10 km
- ☐ Easy to use
- ☐ Easy to install
- ☐ Small Size
- ☐ Low cost

SPECIFICATIONS

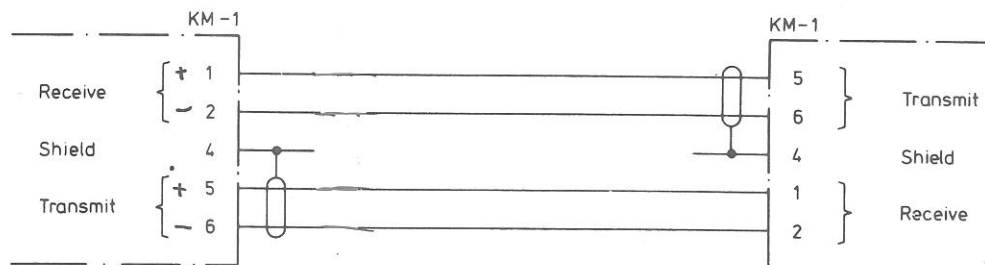
Interface	According to EIA RS232/CCITT V.24
Transmission	Asynchronous, full duplex
Speed	Any rate from 0 to 19200 bps
Line	Simplex: One twisted pair Full duplex: Two twisted pairs
Max distance	19200 9600 4800 2400 1200 600 bps 0.4 0.9 1.5 3 5 10 km
Transmission technique	± 10 mA balanced current loop
Isolation	Opto-coupler
Isolation voltage	1500 V
Power	110/220 VAC ± 10 %, 50/60 Hz (Factory wired) Other supplies on request
Dimensions	80x150x50 mm
Weight	0.5 kg
Temperature range	5—50 °C
Humidity	0—95 % RH, non-condensing

DTE CONNECTION (To DB25S Connector)

Pin No	Mnemonic/Signal Name	CCITT V.24 Designation	RS-232 C Designation
2	TD /Transmitted Data	103	BA
3	RD /Received Data	104	BB
7	GND /Signal Ground	102	AB
4	RTS /Request To Send	105	CA
5	CTS /Clear To Send	106	CB
6	DSR /Data Set Ready	107	CC
8	DCD /Carrier On	109	CF
20	DTR /Data Terminal Ready	108/2	CD

Note: RTS looped back to CTS.
DTR looped back to DSR and DCD.

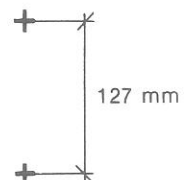
TRANSMISSION LINE CONNECTION (To KM-1 Screw Terminals)



Note: If shielded cable is used, just connect the shield at one end of the transmission line.

MOUNTING

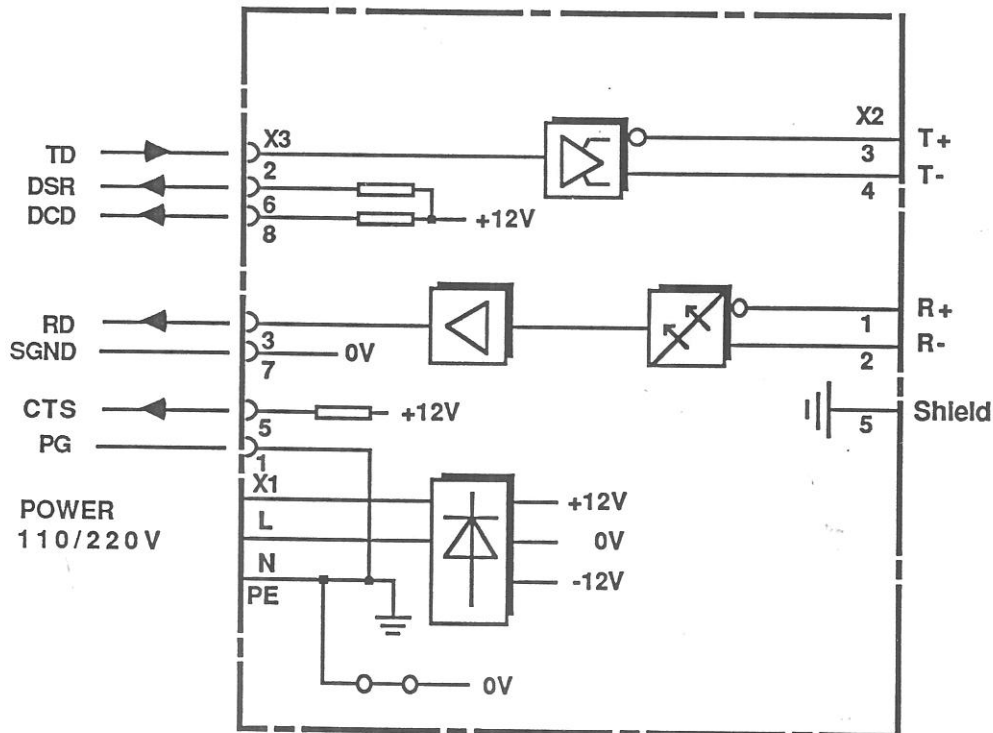
- ☐ Drive in two 4 mm dia.screws (e.g. wood-screws) to the wall, 127 mm center to center (see fig.)
- ☐ Remove the cover of the box.
- ☐ Hang the KM-1 on the wall and tighten the two screws.
- ☐ Connect the line to the screw terminals as shown above.
- ☐ Reassemble the box.
- ☐ Connect the Data Terminal Equipment (DTE).
- ☐ Apply power.
- ☐ The KM-1 is ready to operate.



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From serial no 15001, the following change are implemented:

BLOCK DIAGRAM**DTE CONNECTION**

Pin No	Mnemonic /Signal Name	CCITT V.24 Designation	RS-232 C Designation	Direction	
				Modem	Terminal
1	PG / Protective Ground	101	AA		
2	TD / Transmitted data	103	BA		→
3	RD / Received Data	104	BB	←	
5	CTS / Clear To Send	106	CB	←	
6	DSR / Data Set Ready	107	CC	←	
7	SGND /Signal Ground	102	AB		
8	DCD / Carrier On	109	CF	←	

LINE CONNECTIONS

Screw Terminal No.	Signal
1	R+
2	R-
3	T+
4	T-
5	SHIELD (if used)