TD-34

Advanced Industrial Modem with PSTN fallback function

Field of application

The TD-34 is a top of the range modem designed for use in the most extreme of industrial environments. This modem is the result of over 25 years of experience in the industrial telecommunication market. The modem is suitable for use at extreme temperature ranges (–40 to +70°C) and can be used to altitudes of 4000 m.

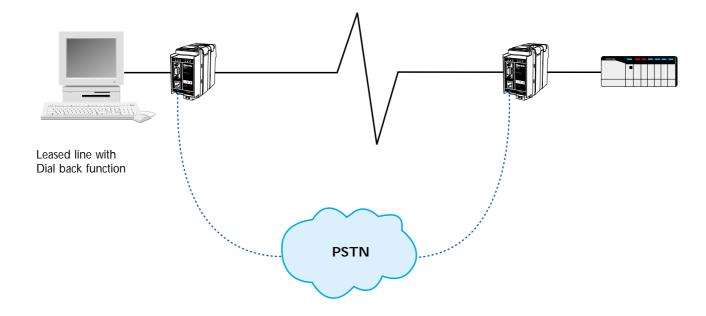
The TD-34 is a V.34 analogue modem meaning that it can support line speeds up to 33.6 kbit/s – the fastest analogue to analogue modulation possible. With a terminal data speed of 115.2 kbit/s the modem can be used for high data rate applications.

A "Fallback" mode is supported when using leased lines. In the event of a line failure a PSTN connection is negotiated and then periodically the leased line is checked until connection can be re-established. The TD-34 has as standard both RS-232 and RS-422/485 ports although only one can be used at any time. There are two variants of the TD-34 for different power supplies, the LV (12–54 V DC, 12–27 V AC) and HV (95–240 V AC 110–240 V DC).



- Up to 33.6 kbit/s (ITU-T V.34)
- Terminal data rates up to 115.2 kbit/s
- RS-232/V.24 on 9-pos. D-sub or screw terminal
- RS-422/485 on screw terminal
- Watchdog function
- High temperature range
- Galvanic isolation and transient protection
- Dial up and leased line
- Supports 11 bit protocols
- HV/LV powered
- 35 mm DIN-rail housing
- Easy installation
- Dip-switch configuration
- Dial back

Application



Model description	TD-34 LV	TD-34 HV
	12-27 V AC ±10%	95-240 V AC ±10%
	12-54 V DC ±10%	110-240 V DC ±10%
Frequency	48-62 Hz	0–62 Hz
Fuse, F1	1.0 A F, SMD	1.0 A S
	Littelfuse	Wickman
Power consumption	3 W	50 mA

PSTN Interface TD-34 LV and TD-34 HV

Connector RJ-11 & Screw terminal

Topology 2-wire on RJ-11 Pin3 & Pin4 bus internally connected

to LL1 & LL2 on screw terminal

Line Modulation ITU-T V34 (up to 33.6 kbit/s), V32bis, V32, V23 (1200/75),

V22bis, V22, V21, Bell212A, Bell103

Dial up Tone signals DTMF Compression V42bis & MNP5

Error Correction V42 LAPM, MNP 2-4 & MNP-10 Isolation 1 500 Vrms to rest of electronics

Leased Line Interface TD-34 LV and TD-34 HV

Connector Screw terminal

Topology 2-wire on screw terminal LL3 & LL4

4-wire on screw terminal LL1, LL2, LL3 & LL4

Line Modulation ITU-T V34, V32bis, V32, V23 (1200/75), V22bis, V22, V21, Bell212A, Bell103

V42bis & MNP5 Compression

Error Correction V42 LAPM, MNP 2-4 & MNP-10 Isolation 1 500 Vrms to rest of electronics

EIA RS-232-c/V24 Interface TD-34 LV and TD-34 HV

Connector 9-pos D-sub and screw terminal

DTE Speed Up to 115.2 kbit/s **DTE Format** Up to 11 bits

EIA RS-422/485-C/ITU-T V.24 Interface TD-34 LV and TD-34 HV

Connector 2- or 4-wire on 4-pos screw terminal

Up to 115.2 kbit/s DTE Speed **DTE Format** Up to 11 bits

Alarm Interface TD-34 LV and TD-34 HV

3-position screw terminal AL1, AL2 & AL_COM Connector

AL1 10-60 V DC, 1 mA@10 V DC Supply Voltage Isolation AL1 1 500 Vrms to rest of electronics Output AL2 Max 1 A, electromechanical relay Isolation AL2 1 500 Vrms to rest of electronics

Miscellaneous TD-34 LV and TD-34 HV

Indicators TD, RD, RTS, DTR, DCD, DSR, PWR, LINE, AL1, AL2

-40 to +70°C **Operating Temperature**

Altitude Up to 4 000 m above sea level Humidity 0-95% RH, without condensation

IP-Classification IP20 0.4

Weight, kg

55x100x128 (WxHxD) Dimensions, mm On 35 mm DIN-rail Mounting

