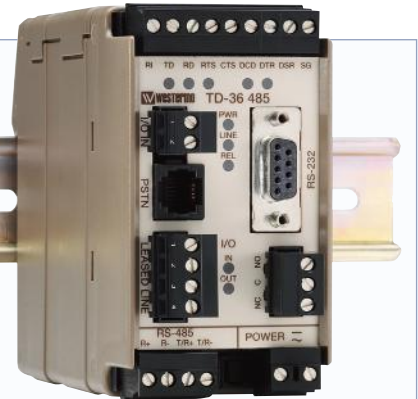


# Industrial backup PSTN and Leased Line Modem

## TD-36 485

- ⌘ Legacy remote access solution
  - Traditional AT command modem with 2/4-wire lease line support
  - Up to 11 bit RS-232/RS-422/485 to 115.2 kbit/s
  - V34 with fast connect, V32bis, V22bis, V23HDX/FDX +multidrop support
- ⌘ Robust industrial solution for long service life in unmanned locations
  - Extended temperature -25°C to 70°C (-13°F to 158°F)
  - Extensive EMC approvals and tri-galvanic isolated interfaces
  - Watchdog and remote configuration
- ⌘ Secure and resilient non internet based remote access
  - Secure call back and access
  - Caller ID presentation and answering
  - PSTN backup for Lease line.
- ⌘ Easy to use
  - I/O, DTR and data dialling
  - DIP switch configuration and TD-tool configuration software
  - RS-232, 9-pin D-sub and screw terminals



**EN 50121-4**  
Railway Trackside

**EN 61000-6-2**  
Industrial Immunity

**EN 61000-6-4**  
Industrial Emission

The TD-36 485 is an industrial modem designed to allow cost effective and simple remote access to legacy serial industrial equipment. The AT command driven modem is capable of synchronising with a wide range of traditional modem negotiation standards providing data rates up to 33.6 kbit/s over both PSTN and 2- or 4-wire lease line circuits.

Designed with remote unmanned industrial locations in mind the modem can operate in extremes of temperature and electromagnetic field. The complete galvanic separation of all interfaces ensures earth loops and transients do not interfere with communication. To keep visits to the site to a minimum a watchdog monitors the modem ensuring constant readiness, and remote re-configuration means that changes to settings can be handled without a site visit.

Firewalls are not an issue as data does not use the internet and with call back security it is impossible for either accidental or deliberate access to any equipment attached to the modem. To provide resilience a second line interface allows a PSTN connection to be established in the event of a lease line failure.

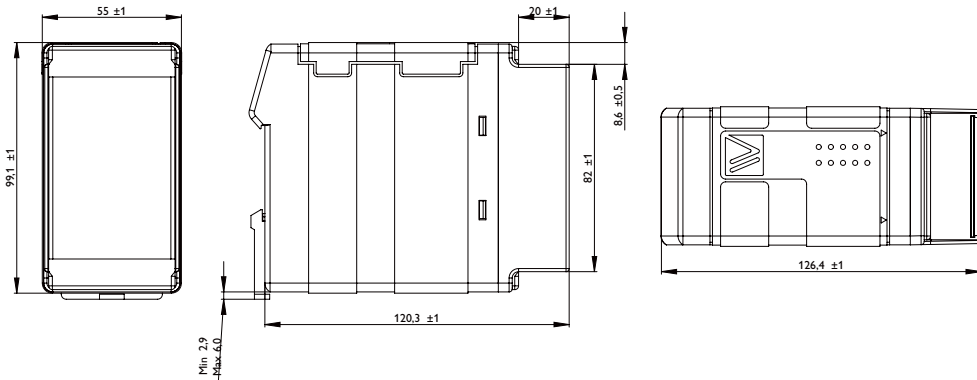
The modem is also simple to configure using the Westermo TD-tool software; standard commands can easily be entered and saved configurations downloaded. RS-232 connections can be made using screw connections as well as the standard D-sub. The modem is designed to be connected to devices with no ability to control dialling so special functions like data dialling and DTR dialling are provided to enable these devices to automatically establish connection.

### Ordering Information

Art.no	Description
3618-0001	TD-36 485, AV, RS-232, RS-422/485
3618-0010	TD-36 485, LV, RS-232, RS-422/485
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

# Specifications TD-36 485

## Dimensional drawing



Dimension W x H x D 55 x 100 x 132 mm (2.16 x 3.93 x 5.19 in)

Weight 0.36 kg

Degree of protection IP 20

### Power

Operating voltage	AV: 18 to 300 VDC, 22 to 264 VAC LV: 12 to 48 VDC, 12 to 27 VAC
Rated current	AV: 125 mA @ 18 VDC, 15 mA @ 110 VDC, 8 mA @ 250 VDC, 120 mA @ 22 VAC, 35 mA @ 95 VAC, 28 mA @ 240 VAC LV: 150 mA @ 12 VDC, 70 mA @ 24 VDC, 40 mA @ 48 VDC, 150 mA @ 12 VAC, 70 mA @ 24 VAC

### Interfaces

Public Switched Telephone Network (PSTN)	1 x 300 bit/s – 33.6 kbit/s
Leased Line (LL)	1 x 300 bit/s – 33.6 kbit/s
RS-422/485	1 x 300 bit/s – 115.2 kbit/s
RS-232	1 x 300 bit/s – 115.2 kbit/s

### Temperature

Operating	-25 to +70°C (-13 to +158°F)
Storage & Transport	-40 to +70°C (-40 to +158°F)

### Agency approvals and standards compliance

EMC	EN 55024, Immunity IT equipment
	EN 55022, Emission IT equipment
	EN 61000-6-1, Immunity residential environments
	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-4, Emission industrial environments
	FCC part 15 Class A
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
Safety	UL/IEC/EN 60950-1, IT equipment
PSTN	CS 03 Part 1, issue 9 FCC part 68, TIA-968-A ETSI TS103 021-1, ETSI TS103 021-2, ETSI TS103 021-3 AS/ACIF S002, AS/ACIF S006