Industrial Telephone Modem

TDW-33

- Cost effective legacy remote access solution
  - Traditional AT command modem
  - RS-232 up to 11 bit, 115.2 kbit/s
  - V.90, V34, V32bis, V22bis 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 non internet based remote access
  - Secure call back function
  - Caller ID presentation and answering
  - Password protected configuration
- Easy to use
  - Windows drivers and TD-tool configuration software
  - DTR and data dialling
  - RS-232, 9-pin D-sub and screw terminals

CE FC Part 15 / 68 c UL us

EN 50121-4 Railway Trackside

EN 61000-6-2 Industrial Immunity

EN 61000-6-3 Residential Emission

EN 61000-6-4 Industrial Emission

The TDW-33 is a simple 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 56.7 kbit/s

Designed with remote unmanned industrial locations in mind the modem can operate in extremes of temperature and electromagnetic fields. The complete galvanic separation of all interfaces ensures that 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.

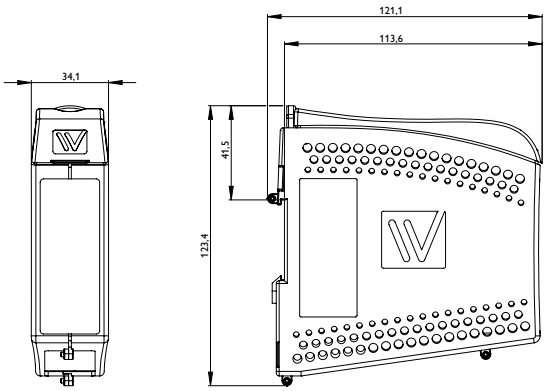
Firewalls are not an issue as data does not use the internet and with call back security it is impossible for either accidental or deliberate access to any equipment attached to the modem.

The modem is 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 connections.

Ordering Information	
Art.no	**Description**
3619-0001	TDW-33, LV, RS-232
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications TDW-33

Dimensional drawing



Dimension W x H x D	34 x 123 x 121 mm (1.33 x 4.84 x 4.76 in)
Weight	0.21 kg
Degree of protection	IP 21

Power	
Operating voltage	10 to 60 VDC or 10 to 42 VAC
Rated current	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 – 56.7 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 55022, Emission IT equipment
	EN 55024, Immunity IT equipment
	EN 61000-6-1, Immunity residential environments
	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-3, Emission residential environments
	EN 61000-6-4, Emission industrial environments
	FCC part 15 Class B
	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