

# Industrial ISDN Modem

## IDW-90



- ⌘ Legacy remote access solution
  - Traditional AT command ISDN modem
  - Up to 11 bit RS-232/RS-422/485 to 115.2 kbit/s
  - ISDN DSS1 up to 128kbit/s, V110 asynchronous, X75, PPP, ML-PPP and V34 support
- ⌘ Robust industrial solution with a wide variety of connection possibilities
  - Interoperability with ISDN, PSTN and GSM-modems
  - Extensive EMC approvals
  - Tri-galvanic isolated interfaces
- ⌘ Secure non internet based remote access
  - Secure call back and access
  - Caller ID presentation and answering
  - Watchdog and remote configuration
- ⌘ Easy to use
  - I/O, DTR, data dialing and SMS/Text message support
  - DIP switch configuration and IDW-tool configuration software
  - RS-232, 9-pin D-sub and RS-422/485 screw terminals



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

**EN 61000-6-3**  
Residential Emission

**EN 50121-4**  
Railway Trackside

The IDW-90 is an industrial ISDN modem designed to allow cost effective and simple remote access to legacy serial industrial equipment. The AT command driven modem is capable of synchronizing with a wide range of traditional modem negotiation standards providing data rates of up to 128 kbit/s.

With the built-in V.34 analogue modem the IDW-90 can not only connect to ISDN based modems but also with the PSTN units. The unit even has support for V110 which enables GSM-modems to be connected as well. The complete galvanic separation of all interfaces ensures earth loops and transients do not interfere with communication.

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 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.

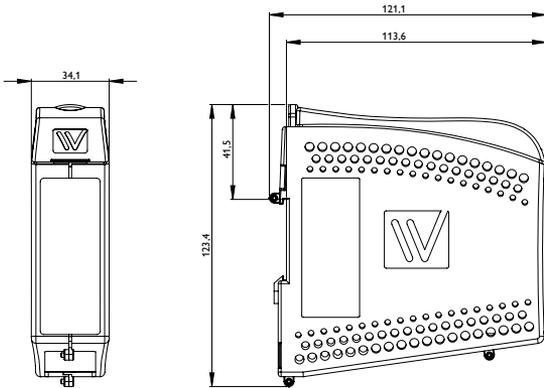
The modem is also simple to configure using the Westermo IDW-tool software; standard commands can easily be entered and saved configurations downloaded. RS-232 connections can be made using the standard D-sub whereas the 422/485 connections uses a standard screw terminal. The modem is designed to be connected to devices with no ability to control dialing so special functions like data dialing and DTR dialing are provided to enable these devices to automatically establish connection.

### Ordering Information

Art.no	Description
3620-0001	IDW-90 ISDN and PSTN modem, RS-232, RS-422/485, LV
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

# Specifications IDW-90

## Dimensional drawing



Dimension W x H x D 34 x 123 x 121 mm (1.33 x 4.84 x 4.76)

Weight 0.21 kg

Degree of protection IP 21

### Power

Rated voltage	12 to 48 VDC, 12 to 34 VAC
Operating voltage	10 to 60 VDC, 10 to 42 VAC
Rated current	110 mA @ 12 VDC 55 mA @ 24 VDC 30 mA @ 48 VDC

### Interfaces

RS-232	1 x 300 bit/s – 115.2 kbit/s
RS-422/485	1 x 300 bit/s – 115.2 kbit/s
ISDN	1 x 300 bit/s - 128.0 kbit/s

### Temperature

Operating	+5 to +55°C (+41 to +131°F)
Storage & Transport	-20 to +85°C (-13 to +185°F)

### Agency approvals and standards compliance

EMC	EN 61000-6-2, Immunity industrial environments
	EN 55024, Immunity IT equipment
	EN 61000-6-3, Emission residential environments
	FCC part 15 Class B
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
Safety	EN 60950-1, IT equipment
ISDN	TBR-3