Serial Adapter

EDW-120 EX

- Easy to install and use
  - Purpose build DIN rail casing with integral clip
  - Extensive LED and Telnet diagnostics
  - Web and DIP switch configuration
- Designed for use in harsh industrial applications
  - Dual 10 – 60 VDC power input
  - Total galvanic isolation & transient protection
  - ATEX Zone 2 – Ex II 3 G Ex nA IIC T4 Gc (Nemco tested)
- Robust for long service life
  - 1,000,000 hours MTBF to MIL-HDBK-217K
  - –25 to +70°C (–13 to +158°F) with no moving parts
  - Industrial EMC, shock and vibration testing
- Comprehensive legacy to IP solution
  - UDP, TCP client and TCP server with packing algorithm
  - Modbus TCP to RTU/ASCII gateway
  - Special modes for hardware handshake and resilience

CE FC Part 15 Ex EN 61000-6-2 Industrial Immunity EN 61000-6-4 Industrial Emission EN 50121-4 Railway Trackside

The EDW-120 EX is an ATEX certified dual Ethernet converter designed to allow RS-232 serial devices to communicate via TCP/IP Ethernet networks. DIP switches can be used for configuration of Ethernet port settings if required, and the password protected web interface is used for all other settings. Diagnostic information can be accessed via a Telnet session with more basic information offered on LEDs.

The EDW-120 EX is designed for use in heavy duty industrial applications. The wide power range, complete galvanic isolation and transient protection allow the EDW-120 EX to operate without the fear of failure caused by ground loops or noise spikes typical in the worst environments. (External) Testing has been performed (by Nemco) to ensure the EDW-120 EX can be used in potentially explosive atmospheres as defined in the ATEX directive.

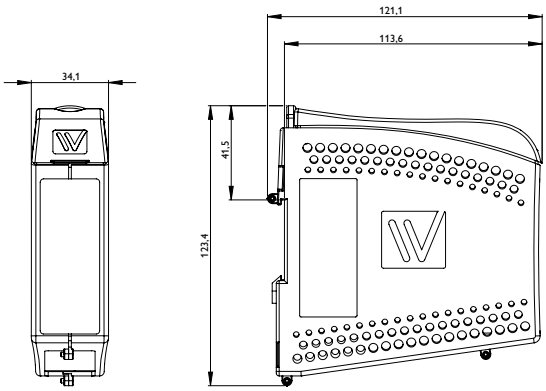
Only industrial grade components are used which gives the EDW-120 EX an MTBF of 1,000,000 hours and ensures a long service life. A wide operating temperature range of –25 to +70°C (–13 to +158°F) can be achieved with no moving parts. The EDW-120 EX has been tested both by Westermo and external test houses to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments and rail trackside applications.

The EDW-120 EX supports UDP, TCP client and TCP server connections between units or to a PC virtual COM port. It also has an array of special modes, including Single Client Mode, Dual TCP Connection, DSR Connection, RST on TCP Closure, RTS Control, Break Signalling and Last Calling allowing the unit to be used in a wide range of complex applications. The Modbus TCP Gateway implementation in the EDW-120 EX supports Modbus RTU and Modbus ASCII in both master and slave modes.

Ordering Information	
Art.no	**Description**
3616-5010	EDW-120 EX
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications EDW-120 EX

Dimensional drawing



Dimension W x H x D	34 x 123 x 121 mm (1.33 x 4.84 x 4.76 in)
Weight	0.2 kg
Degree of protection	IP 21

Power	
Operating voltage	10 to 60 VDC
Rated current	200 mA @ 12 VDC 100 mA @ 24 VDC 50 mA @ 48 VDC

Interfaces	
RS-232	2 x 9-pin D-sub (male), 300 bit/s – 115.2 kbit/s
Ethernet	1 x RJ-45, 10 Mbit/s or 100 Mbit/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 61000-6-2, Immunity industrial environments
	EN 61000-6-4, Emission industrial environments
	EN 55024, Immunity IT equipment
	FCC part 15 Class B
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
Safety	EN 60950, IT equipment
ATEX	EN 60079-0 and EN 60079-15