



Www.Termo DC1

DC2

Industrial Ethernet Extender

DDW-142



- Up to 15.3 Mbit/s Ethernet over twisted pair or 30.6 Mbit/s with bonding
- 2 port 100 Mbit L2 switch supporting VLAN and QoS
- Legacy connection via RS-232 port
- Security, legacy resilient networking from WeOS
 - Port access control (802.1x) or MAC authentication
 - RSTP and multimedia ring solutions
 - Modem replacement, serial to IP, Modbus Gateway functions
- **Easy to Use**
 - Basic installation with no configuration needed
 - Web screen for simple configuration and CLI for professional use
 - USB fluid configuration for easy maintenance
- **■** Robustly designed for mission critical applications
 - 437,000 hours MTBF to MIL- HDBK -217F for extreme reliability
 - Extensive line diagnostics and fault I/O contact and SNMPv3
 - · Robust design for vibration, temperature and dual power input











EN 61000-6-2 EN 61000-6-3 EN 61000-6-4



NEMA TS 2 Traffic Controller Assemblies with NTCIP Requirements



The WeOS (Westermo Operating Systems) has been developed to allow cross platform and future proof solutions. WeOS can deliver unique security functionality for this class of product as well as allowing the DDW-142 to form part of a resilient multimedia ring network using the Westermo FRNT protocol or industry standard STP/RSTP.WeOS has been developed to provide industrial networking solutions and contains amazing serial connectivity capability - from being able to simulate an old AT modem, convert Modbus RTU to TCP or encapsulate serial data into an IP packet. The DDW-142 is incredibly flexible and easy to use. A basic point-to-point or multidrop network can be created without the need for any kind of configuration.

The DDW-142 is often used in applications on railways, roads or with utilities where failure could result in significant costs. All Westermo products are designed with high MTBF in mind to improve operational reliability and also give long service life. Even features like the SHDSL diagnostics and management allow indication of line degradation allowing planned maintenance. As the unit is designed for these applications Westermo also ensure that testing is carried out to ensure the unit can operate at extremes of temperature, EMC and vibration and still provide robust communications.

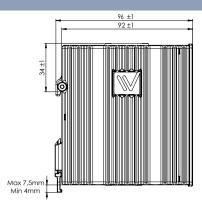
Ordering Information		
Art.no	Description	
3642-0300	DDW-142 Industrial Ethernet Extender	
3642-0400	DDW-142-12VDC Industrial Ethernet Extender	
1211-2027	Diagnostic cable (Console) (Accessories)	
3125-0001	PS-30, Power supply, DIN mounted (Accessories)	



Specifications DDW-142

Dimensional drawing

52 ±1



Dimension W x H x D $52 \times 100 \times 101$ mm

 $(2.04 \times 3.93 \times 3.97 \text{ in})$

Weight 0.8 kg Degree of protection IP40

Power		
DDW-142	Rated voltage	24 to 48 VDC
	Operating voltage	19 to 60 VDC
	Rated current	245 mA (405 mA) @ 24 VDC (with 500 mA USB load) 124 mA (200 mA) @ 48 VDC (with 500 mA USB load)
DDW-142-12VDC	Rated voltage	12 to 48 VDC
	Operating voltage	9.8 to 60 VDC
	Rated current	475 mA (765 mA) @ 12 VDC (with 500 mA USB load) 245 mA (405 mA) @ 24 VDC (with 500 mA USB load) 124 mA (200 mA) @ 48 VDC (with 500 mA USB load)

Interfaces		
Ethernet TX	2 × RJ-45, 10 Mbit/s, 100 Mbit/s, manual or auto	
SHDSL	2 × 2-position detachable screw terminal	
RS-232	1 × RJ-45, 300 bit/s – 115.2 kbit/s	
Digital I/O	1 × 4-position detachable screw terminal	
USB	1 x USB 2.0 host interface	
Console	1 x 2.5 mm jack, use only Westermo cable 1211-2027	

Temperature	
Operating	DDW-142: -40 to +70°C (-40 to +158°F) DDW-142-12VDC: -40 to +74°C (-40 to +165°F)
Storage & Transport	-40 to +85°C (-40 to +185°F)

Agency approvals and standards compliance		
EMC	EN 61000-6-1, Immunity residential environments	
	EN 61000-6-2, Immunity industrial environments	
	EN 61000-6-3*, Emission residential, commercial and light-industrial environments	
	EN 61000-6-4, Emission industrial environments	
	EN 50121-4, Railway signalling and telecommunications apparatus	
	IEC 62236-4, Railway signalling and telecommunications apparatus	
Safety	UL/IEC/EN 60950-1, IT equipment	
Marine	DNV GL rules for classification – Ships and offshore units*	
Environmental	NEMATS 2, Traffic Controller Assemblies with NTCIP Requirements**	

^{*}Only DDW-142



^{**}Only DDW-142-12VDC