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Industrial Ethernet Extender

DDW-220

Save time and money reusing old cable and equipment

- Up to 5.7 Mbit/s Ethernet over twisted pair cables
- Up to 15 km range
- Transparent to industrial protocols

III Designed for use in harsh industrial applications

- Dual 16 60 VDC power input
- Extensive line diagnostics and fault I/O contact
- TBU Transient blocking unit

Ⅲ Robust for long service life

- 700.000 hours MTBF to MIL-HDBK-217K
- -40 to +70°C (-40 to +158°F) with no moving parts
- · Industrial EMC, shock and vibration testing

III Easy configuration and management

- · Simple web based configuration
- SNMP management
- 4 port managed switch







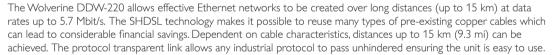




EN 61000-6-4 Industrial Emission

EN 50121-4

Wester



With its robust aluminium housing, the DDW-220 is designed for use in heavy duty industrial applications. The wide power range and I/O fault contact make it ideal for easy installation and monitoring in industrial applications.

Only industrial grade components are used which gives the DDW-220 an MTBF of 700,000 hours and ensures a long service life. A wide operating temperature range of -40 to +70°C (-40 to +158°F) can be achieved without the need for moving parts or cooling holes in the case. The DDW-220 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.

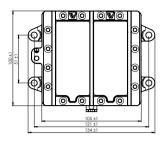
The DDW-220 is designed for daisy chain applications over an SHDSL line. At each location, a local network can then be configured using the integrated L2 switch. The switches support QoS (Quality of Service) with four priority queues and strict priority scheduling as well as HoL (Head of Line Blocking Prevention).

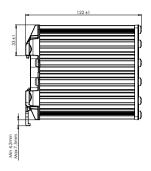
Ordering Information	
Art.no	Description
3642-0200	DDW-220
3125-0001	PS-30, Power supply, DIN mounted (Accessories)



Specifications DDW-220

Dimensional drawing





Speed and Distance

	DDW-220 @ 0.5 mm²	DDW-220 @ 0.4 mm²
Speed bit/s	Distance metre / miles	Distance metre / miles
192000	10000 / 6.21	6450 / 4.00
1024000	7650 / 4.75	4850 / 3.01
1280000	7050 / 4.38	4700 / 2.92
2304000	5950 / 3.69	4150 / 2.58
3328000	4900 / 3.04	3700 / 2.30
4544000	4250 / 2.64	3150 / 1.95
5696000	3650 / 2.26	2800 / 1.73

Distance is tested without noise.

Dimension W x H x D $134 \times 100 \times 122 \text{ mm} (5.25 \times 3.93 \times 4.80 \text{ in})$

Power	
Operating voltage	16 to 60 VDC
Rated current	300 mA @ 20 VDC 150 mA @ 48 VDC

Interfaces	
Ethernet TX	4 x RJ-45, 10 Mbit/s or 100 Mbit/s
DSL	2 × 2-position detachable screw terminal, 192 kbit/s to 5.7 Mbit/s

Temperature	
Operating	-40 to +70°C (-40 to +158°F)
Storage & Transport	-40 to +70°C (-40 to +158°F)
Maximum surface temperature	135°C (275°F) (temperature class T4)

Agency approvals and standards compliance		
EMC	EN 61000-6-2, Immunity industrial environments	
	EN 55024, Immunity IT equipment	
	EN 61000-6-4, Emission industrial environments	
	FCC part 15 Class A	
	EN 50121-4, Railway signalling and telecommunications apparatus	
Safety	EN 60950-1, IT equipment.	
SHDSL	ITU-T G.991.2.	
ATEX	EN 60079-0 and EN 60079-15. (Ex nA IICT4 G)	
FM Approvals	Class 1 Div 2	