

# Point-to-Point Fibre Converter RS-232

## ODW-720-F1



- ⌘ Numerous fibre configuration options
  - Up to 120 km distance
  - BiDi support (single fibre)
  - Multimode and singlemode SFPs
- ⌘ Designed for use in industrial applications
  - Dual 10 V to 60 VDC power input
  - 500,000h MTBF according to MIL HDBK-217K
  - Galvanically isolated status output
- ⌘ Unique solutions for serial RS-232 protocols
  - Data rates to 250 kbit/s
  - Up to 12 data bits
  - Dual channel for status (RTS/CTS) transmission
- ⌘ Simple to use and install
  - Transparent to any data rate
  - Comprehensive diagnostic LEDs
  - Compact housing with integral DIN rail clip



**EN 50121-4**  
Railway Trackside

**EN 61000-6-1**  
Residential Immunity

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

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

**EN 61000-6-4**  
Industrial Emission

The ODW-720-F1 has been designed to allow RS-232 protocols to be transmitted point-to-point over a fibre optic link. The design allows the use of a range of Westermo verified SFP (Small Form Pluggable) transceivers which can provide solutions with, for example, only a single fibre or distances up to 120 km.

This unit has been designed for industrial use where the requirement is for a long and reliable service life, in a harsh environment. To ensure this reliable operation we manufacture using the highest quality components.

The ODW-720 draws on Westermo's many years of knowledge of serial protocols and can even transmit the RTS/CTS hardware controls if required.

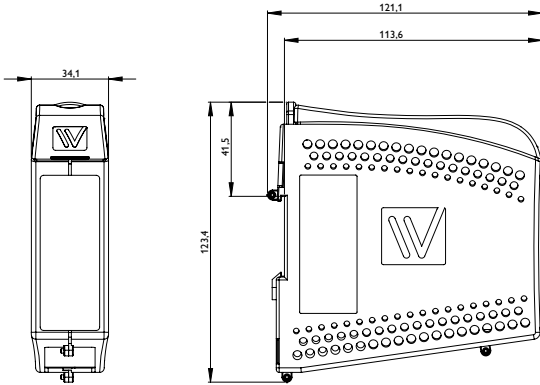
The ODW is simple to install, being small, with a simple integral DIN rail clip. The unit is totally transparent to any data rate so no configuration is needed. The comprehensive LEDs provide a quick and easy way of detecting any network problems that may be encountered.

### Ordering Information

Art.no	Description
3651-0721	ODW-720-F1
3125-0150	PS-60, Power supply, DIN mounted (Accessories)

# Specifications ODW-720-F1

## Dimensional drawing



Dimension W x H x D     35 x 121 x 119 mm (1.37 x 4.76 x 4.68 in)  
 Weight                     0.26 kg  
 Degree of protection     IP21

### Power

Operating voltage	10 to 60 VDC and 20 to 30 VAC
Rated current	300 mA @ 12 V 150 mA @ 24 V 75 mA @ 48 V

### Interfaces

Status	1 x Detachable screw terminal
RS-232	1 x 300 bit/s – 250 kbit/s
FX (Fibre)	1 x LC Duplex or LC Simplex

### Temperature

Operating	-40 to +70°C (-40 to +158°F)
Storage & Transport	-40 to +70°C (-40 to +158°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 environments
	EN 61000-6-4, Emission industrial environments
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
	DNV Standard for Certification no. 2.4
Safety	UL/CSA 60950-1, IT equipment