



## WESTERMO

# Westermo ODW-730-F1 fibre converter

Product code 41071 · Fire alarm systems > Control equipment

RS-422/485 serial fibre modem for point-to-point links. It can be used to extend the ring network of EBL512 G3 fire alarm control panels over single-mode fibre up to 80 km.

- RS-422/485, 300 bit/s – 1.5 Mbit/s, synchronous and asynchronous
- One SFP slot (100 Mbit/s) for a point-to-point link
- Recommended for single-mode fibre links in the EBL512 G3 ring network
- Redundant supply 10–60 V DC, MTBF 500,000 h
- Switch-selectable termination resistor
- DIN rail mounting, operating temperature –40...+70 °C

## Product description

Westermo ODW-730-F1 is a fibre modem designed for industrial use that transfers RS-422/485 serial communication over a fibre-optic link. The F1 model has one fibre port (SFP slot), so it is intended for point-to-point links. The type and length of the fibre link depend on the selected SFP module; with the modules in the series, links of up to 120 km or single-fibre (BiDi) links are possible.

## Use in the EBL512 G3 ring network

In the technical description of the Panasonic EBL ring network, ODW-730-F1 is the recommended fibre modem when the RS-422 link between fire alarm control panels is implemented with single-mode fibre; the range is then up to 80 km depending on the module and fibre. According to the description, two ODW-730-F1 modems are needed per panel, even when only one of the networks uses single-mode fibre. The modems are connected to the terminals of network board 5040; on the board side, the cable is terminated with an RJ45 connector.

## Technical features

The device supports both synchronous and asynchronous data transfer at 300 bit/s – 1.5 Mbit/s. Termination resistors are selected with switches, so separate resistors are not needed. The operating voltage of the redundant supply is 10–60 V DC or 20–30 V AC. A status relay indicates a network fault. The housing has an integrated DIN rail mount, and the device meets the EMC standards for residential and industrial environments as well as EN 50121-4 for railway applications. The SFP module is ordered separately, for example Westermo SLC20-DDM for single-mode fibre.

## Technical data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Product code          | 41071                                                  |
| Manufacturer          | Westermo                                               |
| Product group         | Fire alarm systems > Control equipment                 |
| Dimensions            | 34 × 122 × 123 mm (W × H × D)                          |
| Weight                | 260 g                                                  |
| Operating voltage     | 10–60 V DC or 20–30 V AC (nominal 12–48 V DC, 24 V AC) |
| Operating temperature | –40...+70 °C                                           |

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| IP rating           | IP21                                                               |
| Rated current       | 300 mA / 12 V DC, 150 mA / 24 V DC, 75 mA / 48 V DC                |
| Humidity            | 5–95% RH                                                           |
| Protocols           | RS-422/485, synchronous and asynchronous                           |
| Data rate           | 300 bit/s – 1.5 Mbit/s                                             |
| Connection          | RS-422/485 screw terminal; 1 × SFP slot (100 Mbit/s); status relay |
| Mounting            | 35 mm DIN rail                                                     |
| MTBF                | 500,000 h                                                          |
| Standards           | EN 61000-6-1, -2, -3, -4; EN 50121-4; UL/CSA 60950-1               |
| Manufacturer's code | Westermo 3651-0731                                                 |

## Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

**Technical datasheet (series):** Westermo ODW-700 series

**Installation guide (series):** Westermo ODW-700 series

**Certificate:** EU declaration of conformity

**Technical datasheet (series):** EBL Ring Network

### Request a quote or ask for more information

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Up-to-date information and documents: [pap.fi/en/tuote/westermo-odw-730-f1-kuitumuunnin/](https://pap.fi/en/tuote/westermo-odw-730-f1-kuitumuunnin/)