Originator	CoE	Distribution	External
Product	2X, KFP-A, ZP2, 2X-A, ZP2-A series	Component	WESTERMO ODW-730-F2
Hardware		Firmware	03.05.05K or newer

Connection and configuration of Westermo ODW730-F2 modules for 2010-2 control panels

Purpose

The application note describes how to configure and connect the Westermo ODW 730-F2 fiber optic converters to the 2010-2 panels.

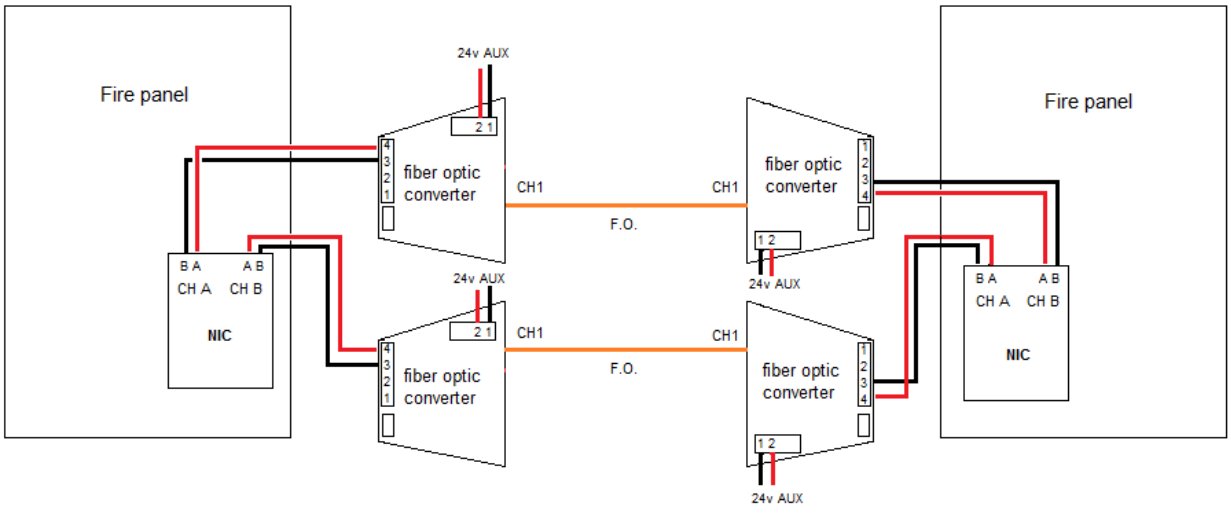
Please refer to the Westermo "ODW-730-F2 User guide" as the main reference for installation of the fibre optic converters. This note will show specific settings referenced in the manufacturer's manual.

Applications

a) Connection diagram

Connect the Westermo ODW-730-F2 modules to the 2010-2 panel as shown below:

NOTE: Only CH 1 of each converter must have fibre connected



Since the 2010-2 firenet consists of isolated links between panels, each network link must be converted to fibre using 2 Westermo ODW730-F2 converters.

Since the 2010-2 NB network interface card (NIC) has 2 ports, 2 Westermo ODW730-F2 converters are needed for each panel if both ports are connected to a fibre link as shown in Figure.

b) Converter Power Supply Requirement

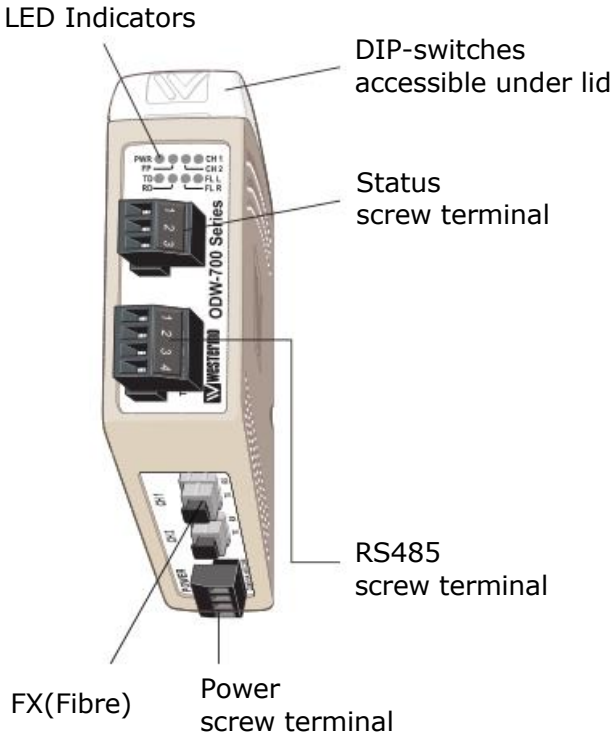
The Westermo ODW730-F2 converters can be powered from the 24V DC AUX output of the control panel (keeping in mind the maximum output current of 500 mA) or from a certified external power supply unit.

c) SFP (small form pluggable)

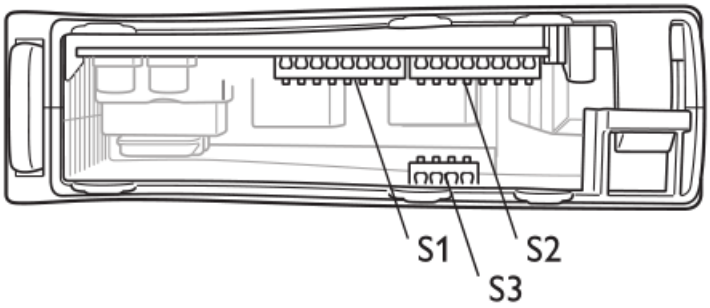
The SFP modules used in the installation (MLC2-DDM or SLC20-DDM) will depend on the type of fibre installed, i.e. single mode or multi-mode.

d) Configuration

The locations of the interface ports, LEDs, and DIP-switches are shown in the figure below:



Three switches are available under the lid:



- S1 - asynchronous mode speed / synchronous mode time frame / V/Y mode selection
- S2 - RS-485 / RS-422 / Multidrop / Redundant ring / Data channel / Status port selection
- S3 – termination

Configure the dipswitches as follows:

- S1 – asynchronous mode speed, (1-4 & 7) 38.4 kbit/s, (5-6) 10 bits data format, (8) V-mode

38.4 kbit/s

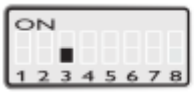
10 bits data format

V-mode

- S2 – (1) RS-485 2-wire, (2) Multidrop mode, (3) Multidrop mid unit or Redundant ring member, (4) Use primary data channel, (5) Single channel system redundant ring (only the primary or secondary channel is used), (6) Set status port on both local fibre link (FL L) and remote fibre link (FL R) errors, (7) and (8) OFF

RS-485 2-wire

Multidrop mode.



Multidrop mid unit or Redundant ring member.

Use primary data channel.

Single channel system redundant ring. E.g. only the primary or secondary channel is used.

Set status port on both local fibre link (FL L) and remote fibre link (FL R) errors.

S2:7 has no function

Always OFF

- S3 – Termination with fail-safe (2-wire)

Termination with fail-safe (2-wire)

e) Useful links

Below you can find links to the optic converter and SFP modules:

ODW-730-F2 - Fiber Optic Modem - Fire Security Products

SLC20-DDM - SFP module - Fire Security Products

MLC2-DDM - SFP module - Fire Security Products