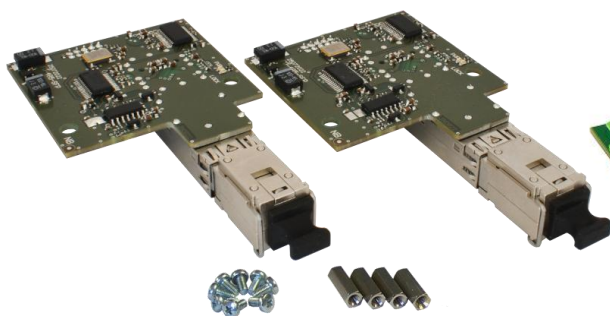




FO-485-SC1-SFP

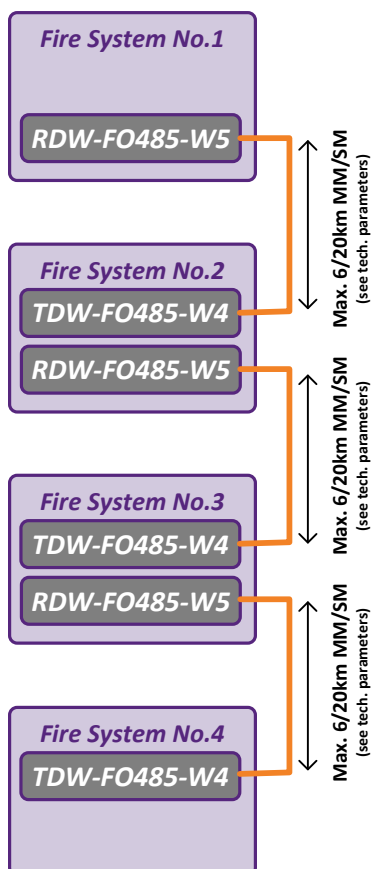


Modules installed on the control panel network board

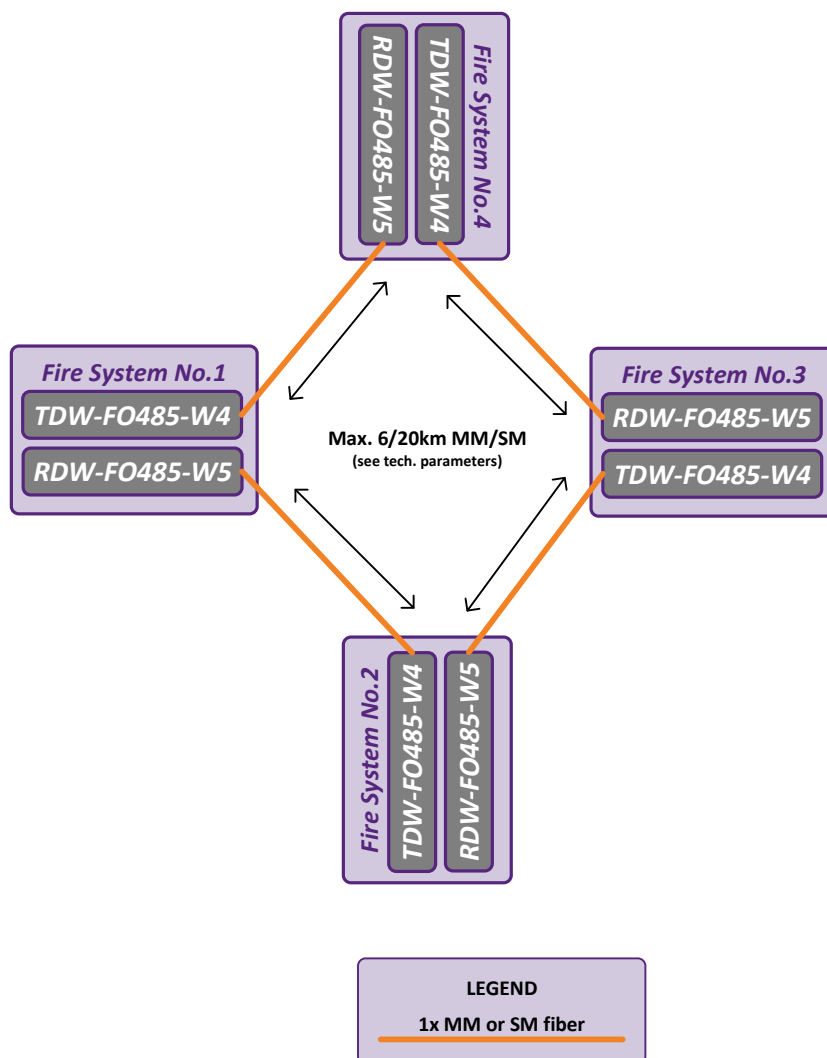
- ❖ Digital modulation
- ❖ Single MM/SM fiber transmission
- ❖ Fully automatic setup

ORDERING NAME	CODE	SUPPLY
FO-485-SC1-SFP	1-006-783	5 VDC
TDW-FO485-W4	1-506-780	5 VDC
RDW-FO485-W5	1-606-780	5 VDC

Bus topology



RING topology



Description and technical parameters

These opto-converters are designed to extend the RS485 buses of ZETTLER EXPERT control panels. The maximum length of the optical path is 6/20km (MM/SM fiber). FO-485 Converters are installed on TLI800EN network modules. The screws and spacers required for installation are included in the accessories. The converters do not require any settings. The converters have integrated WDM (wavelength division multiplex) technology. Only one SM or MM fiber is sufficient for data transmission.

NOTE: the parameters below apply to the individual modules T(R)DW-FO485-W4(5).

FO-485-SC1-SFP kit includes: 1x TDW-FO485-W4, 1x RDW-FO485-W5, mounting accessories

	Parameter	Value	Unit	Note
Optics	Output optical power	-14 to -8 / -10 to 0	dBm	SM / MM
	Sensitivity	-31	dBm	SM / MM
	Optical fibers	1x SM 8(9)/125 - SC connectors	μm	grinding PC
		1x MM 50(62,5)/125 - SC conn.	μm	grinding PC
Distance TDW...RDW	Multimode	Max. 6	km	50/125μm
	Multimode	Max. 4	km	62,5/125 μm
	Singlemode	Max. 20	km	9/125 μm
Wave lengths	...W4 Tx/Rx	1310/1550	nm	
	...W5 Tx/Rx	1550/1310	nm	
ATTENTION: class 1 LASER PRODUCT COMPLIES WITH 21 CFR 1040.10 and 1040.11 (EN 60825-1-1)				
Power Supply	Voltage	4,5 – 5,5	VDC	
	Current at 5 VDC	Max. 250	mA	
Environment	Operational range	-40...+75	°C	temp. of environment
	Humidity	max. 95	%	non-condensing
Mechanical	Dimensions - w / h / l	50 x 15 x 56	mm	
Parameters	Weight	typ. 40	g	incl. accessories
The producer retains the right to change any technical parameters without previous announcement.				

Installation and Setting

1. Mounting

Switch off the TLI800EN supply before installation.
Attach the converters to the network modules LI800EN.
Use provided distances and screws.

2. Connect supply

to TLI800EN modules. Converters are powered over connector interconnecting TLI800EN modules and converter. Connection of supply is indicated by yellow LED POWER switching on.

3. Connect optical fiber

terminated by SC connector (grinding PC).
Always connect converters ...W4 with ...W5.
Never ...W4 with ...W4 or ...W5 with ... W5.
Proper connection of optical fibers is indicated by red LED FIBRE-LOSS switching off.

Converters do not need any further setting.

Converters: TDW-FO485-W4 RDW-FO485-W5

