TECHNICAL DATA

max. transfer rate	5 Mb/s
max. FO line length	1 700 m/ 62,5μm/ST
connector FO	ST (SMA, SC, FC)
connector RS422/485	RJ45
RS422/RS485 isolation	1 kV
selectable terminator	120 Ohm
transfer mode	half duplex – RS485
	full duplex – RS422
	„controlled RS422"
	„4-wire RS485"
number of channels	max 12
power supply	100 - 230V AC
power consumption	max 15 W
overvoltage (soft) protection RS422/485	600W/1ms
overvoltage (soft) protection supply	600W/1ms
optical indication (LED)	red PWR
	yellow RxD
	green TxD
dimension - 1U	480 x 44 x 270mm

MULTI 7.1/485

up to 12 channel

RS 422/485 ←→ Fiber Optic

CONDITIONS OF WARRANTY

ComErgon Ltd. provides full warranty of 24 month for serial interface module MULTI starting on the day of purchase.
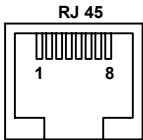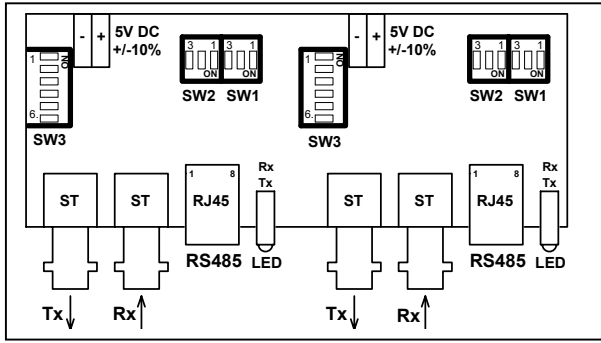The warranty is except for the cases in which the functioning of the module has been affected by faulty manipulation, natural catastrophes or other external factors.

LAYOUT

RJ 45

RJ45	RS422	RS485
3	Tx -	
4	Rx -	B
5	Rx+	A
6	Tx+	
7	ISOGND	ISOGND

STANDARD SETTING

mode of transfer	**RS485 – half duplex**
enable transmitter control RS485/422	**enable**
transmitter control	**by signal TxD**
transmission to fiber optic	**without echo**
terminator	**120 Ω**
receiver fiber optic	**normal**
transmitter fiber optic	**normal**
hold line (pull-up, down)	**connected**

MODE SETTING

	POSITION		MODE	FUNCTION
SW1	1	OFF	RS485 & RS422 terminator for receiver	-
	1	ON		120 Ohm
	2	OFF	hold line for receiver - - pull up	disconnected
	2	ON		connected
	3	OFF	hold line for receiver - - pull down	disconnected
	3	ON		connected
SW2	1	OFF	RS422 - terminator for transmitter	-
	1	ON		120 Ohm
	2	OFF	hold line for transmitter - – pull up – only RS422	disconnected
	2	ON		connected
	3	OFF	hold line for transmitter - – pull down – only RS422	disconnected
	3	ON		connected
SW3	1	OFF	enable transmitter control for RS485/422	enable
	1	ON		third state
	2	OFF	RS422 - full duplex *	**mode RS422**
	2	ON	RS485 - half	**mode RS485**
	3	OFF	transmitter control	by signal TxD
	3	ON		permanent
	4	OFF	transmission to fiber optic	permanent+echo
	4	ON		without echo
	5	OFF	receiver fiber optic	normal
	5	ON		invert
	6	OFF	transmitter fiber optic	normal
	6	ON		invert

*** for mode RS422 full duplex set SW3 position 4 to OFF**