TECHNICAL DATA

max. transfer rate RS232	115 kb/s
max. transfer rate RS485/RS422	3 Mb/s
max. FO length	1,7km on 62,5µm
connector FO Multi Mode	ST duplex, 820nm
connector RS232/422/485	screw
isolation RS422/RS485	1 kV
selectable terminator	120 R
transfer mode	full duplex – RS232
	half duplex – RS485
	full duplex – RS422
	„controlled RS422"
	„four-wire RS485"
power supply	10-50V DC/ 9-34V AC
input power	max 2.5 W
overvoltage protection - RS485/RS422	600W/1ms
overvoltage protection – power supply	600W/1ms
optical indication (LED)	red PWR
	yellow RxD
	green TxD
indication of interrupted fiber optic	permanent yellow LED
(only for fiber optic logic – normal)	
dimension	90 x 36 x 58mm

◈ **ComErgon**   **DIN** serie

DIN 7.1/485

converter

RS 232/422/485 ↔ FO multi mode

isolated RS422/RS485

CONDITIONS OF WARRANTY

(RoHS) CE

**ComErgon Ltd. provides full warranty
of 24 month for serial interface module DIN 7.1/485
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.
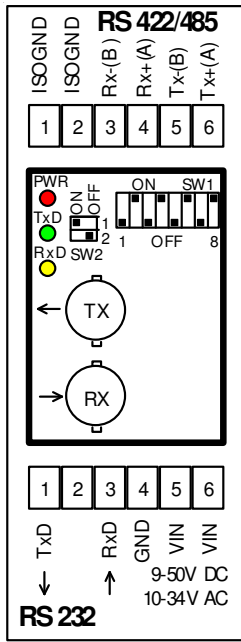
ver. 1.4   rev 1.0/2009

RS 422/485

| 1 | 2 | 3 | 4 | 5 | 6 |

ISOGND ISOGND Rx-(B) Rx+(A) Tx-(B) Tx+(A)

PWR · ON SW1
TxD
RxD SW2 · OFF

TX ←
RX →

| 1 | 2 | 3 | 4 | 5 | 6 |

TxD ↓ RxD ↑ GND VIN VIN

9-50V DC
10-34V AC

RS 232

STANDARD SETTING

transfer mode	**RS232 – full duplex**
	RS485 – half duplex
terminator receiver	**120 R**
hold line (pull-up, down)	**ON**
fiber optic logic	**normal**

Note – at the same time can be used RS422/RS485 or RS232

RS422/RS485 setting – SW1, FO logic – SW2

	POSITION		MODE	NOTE
SW1	**1**		NC	not connected
	2	**OFF**	mode RS422	
	2	**ON**	mode RS485	
	3	**OFF**	mode RS422	
	3	**ON**	mode RS485	
	4	**OFF**	RS422/485 -	
	4	**ON**	- terminator for receiver	120 R
	5	**OFF**	receiver hold line -	
	5	**ON**	– pull down	mode RS232
	6	**OFF**	receiver hold line -	
	6	**ON**	– pull up	mode RS232
	7	**OFF**	transmitter hold line -	
	7	**ON**	– pull down	
	8	**OFF**	transmitter hold line -	
	8	**ON**	– pull up	
SW2	**1**	**OFF**	FO logic - normal	
	1	**ON**	FO logic - inverse	
	2	**OFF**	FO – RS485/422/232	standard
	2	**ON ***	repeater FO	echo on FO

Necessary setting - RS232
*SW1 pos. 5, 6 -**ON** | SW2 pos. 2 -**OFF***

Recommended setting - RS485
*SW1 pos. 7, 8 -**OFF** | SW1 pos. 2, 3, 4, 5, 6 -**ON** | SW2 pos. 2 -**OFF***

Recommended setting - RS422
*SW1 pos. 2, 3 -**OFF** | SW1 pos. 4, 5, 6, 7, 8 -**ON** | SW2 pos. 2 -**OFF***

** when **SW2** is **ON** converter works as repeater FO in mode
 simplex with monitoring on RS485, RS422, RS232.
 In this case it is not possible to receive from RS485/RS422/RS232.*