TECHNICAL DATA

supported modes	RS422 – RS422
	RS422 – RS485
	RS422 – controlled RS422
maximal transfer rate	3 Mb/s w/o transil diodes
	1 Mb/s with transil diodes
galvanic isolation	1 kV
maximal line	1 200 m
selectable terminator	100 / 120 R
connector RS422 side	screw
connector RS422/RS485 side	screw
overvoltage (soft) protection - line	600W 10/1000µs
overvoltage (soft) protection - mains	600W 10/1000µs
optical indication (LED)	red PWR
	yellow - transfer ←
	green - transfer →
power supply	9 - 30 V DC
	10 - 24V AC
input power	max 1.5 W
dimension	90 x 52 x 58mm

RoHS   CE

CONDITIONS OF WARRANTY

ComErgon Ltd. provides full warranty of 24 month for serial interface module DIN 2.2/422R 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.

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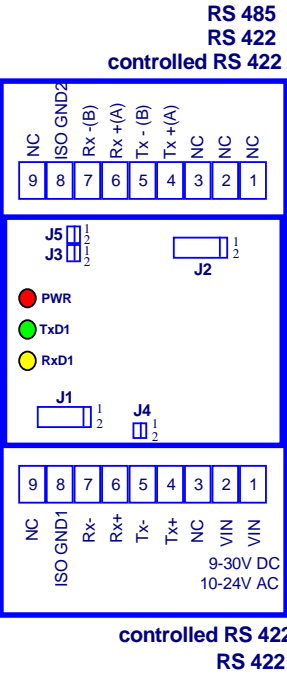
DIN 2.2/422R

isolated
repeater RS422
RS422 – controlled RS422
RS422 – RS485

CONNECTOR AND JUMPER LAYOUT

RS 485
RS 422
controlled RS 422

9	8	7	6	5	4	3	2	1
NC	ISO GND2	Rx -(B)	Rx +(A)	Tx - (B)	Tx +(A)	NC	NC	NC

J5 $\begin{smallmatrix}1\\2\end{smallmatrix}$
J3 $\begin{smallmatrix}1\\2\end{smallmatrix}$
$\begin{smallmatrix}1\\2\end{smallmatrix}$ J2

🔴 PWR
🟢 TxD1
🟡 RxD1

J1 $\begin{smallmatrix}1\\2\end{smallmatrix}$ J4 $\begin{smallmatrix}1\\2\end{smallmatrix}$

9	8	7	6	5	4	3	2	1
NC	ISO GND1	Rx-	Rx+	Tx-	Tx+	NC	VIN	VIN

9-30V DC
10-24V AC

controlled RS 422
RS 422

STANDARD SETTING – mode repeater RS422

terminator	**100 / 120 R**
mode for RS422/RS485 side	**RS422**
transmitter control	**permanent**
receiver control	**permanent**
pull-up, pull-down for receiver	**ON**

OPERATING MODE SETTING

JUMPER	POSITION	FUNCTION
J5	1 - 2, 3 - 4	mode RS485
	-	mode RS422
J1 (J2)	1 - 2	terminator
	3 - 4	pull-up for receiver
	5 - 6	pull-down for receiver
	7 - 8	pull-up for transmitter
	9 - 10	pull-down for transmitter
J4 (J3)	1 - 2 ON *	transmitter control by TxD
	1 - 2 OFF *	transmitter permanent
	3 - 4 ON *	receiver inverse to TxD
	3 - 4 OFF *	receiver permanent

* ON – jumper connected**, OFF** – jumper open

J1, J4 - RS422 side   **J2, J3, J5 - RS422/RS485 side**

LINE CONFIGURATION – RS422/RS485 side

ISOGND2

10R
10R
10R
10R

1,2,3,9 NC
4 Tx+ / A
5 Tx- / B
6 Rx+ / A
7 Rx- / B
8 ISOGND2

ISOGND2

120/1W   **J2**   390R
ISOGND2
J5
RS 422/RS 485

+VI2   390R 390R 390R   +VI2
ISOGND2