

# MULTI 485/422 19"

isolated  
multi channel converter

**RS 232** ↔ **RS 485 / RS 422**

with full RS485 data control for each channel

## TECHNICAL PARAMETERS – for each channel

supported mode	RS485 – half duplex RS422 – full duplex
maximal transfer rate	115 kb/s
maximal line length	1 200 m
RS485 transmitter control (seleable by rotary switch)	RTS (DTR) log0/1 TxD
RS485 receiver control (seleable by rotary switch)	RTS (DTR) log0/1 permanent inverse to TxD
galvanic separation	1 kV
overvoltage (soft) protection – line RS485 / RS422	600W/1ms
overvoltage (soft) protection – power supply	600W/1ms
optical indication	RxD, TxD
terminator	120 Ω
connector RS232c	RJ45
connector RS485 / RS422	RJ10

## COMMON TECHNICAL PARAMETERS

maximal number of independent channels	12
power supply	100V AC – 230V AC
power consumption	max 20 W
operating temperature	0 to 70 °C
storage temperature	-40 to 80 °C
dimension - 19", 1U	478 x 44 x 255 mm

\* necessary specify in order

## STANDARD SETTING RS485 – for each channel

transmitter control	by signal TxD
receiver control	inverse to TxD
terminator	120 Ω
hold line pull-up, pull-down	connected

## WARRANTY CONDITIONS

ComErgon provides full warranty of 24 month for serial interface module MULTI 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.



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## CONFIGURATION AND LAYOUT

### OPERATING MODES – rotary switch – SW1

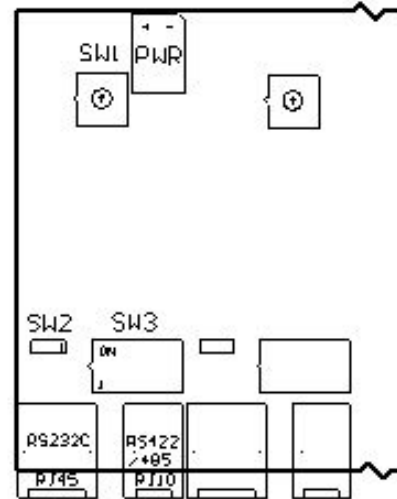
SW 5	TRANSMITTER CONTROL	RECEIVER CONTROL
0, 8 *	RTS (DTR) log1 (< -3V)	RTS (DTR) log0 (> +3V)
1, 9 *	RTS (DTR) log0	RTS (DTR) log1
2	TxD	inverse to TxD
3	-	-
4 *	RTS (DTR) log1 (< -3V)	permanent
5 *	RTS (DTR) log0	permanent
6	TxD	permanent
7	permanent	permanent

### \* CONTROL SIGNAL – jumper - SW2

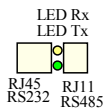
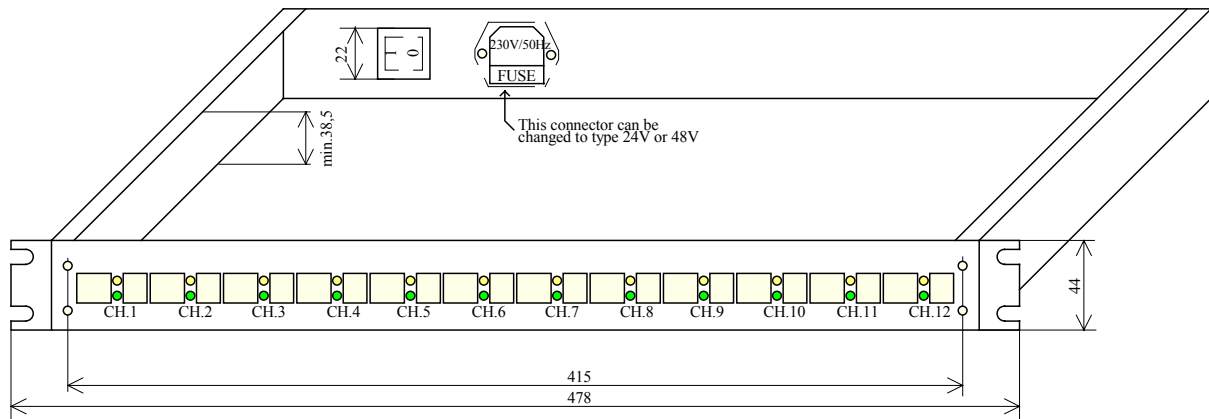
SW 2	POSITION	FUNCTION
1	1 2	RTS control
2	2 3	DTR control

### LINE PARAMETERS – DIP switch – SW3

SW 3	POSITION	FUNCTION
1	ON	terminator 120 Ohm
2	ON	hold line – pull up
3	ON	hold line – pull down
4	-	-
5 & 6	ON, ON	mode RS485
5 & 6	OFF, OFF	mode RS422



## LAYOUT OF CONNECTORS



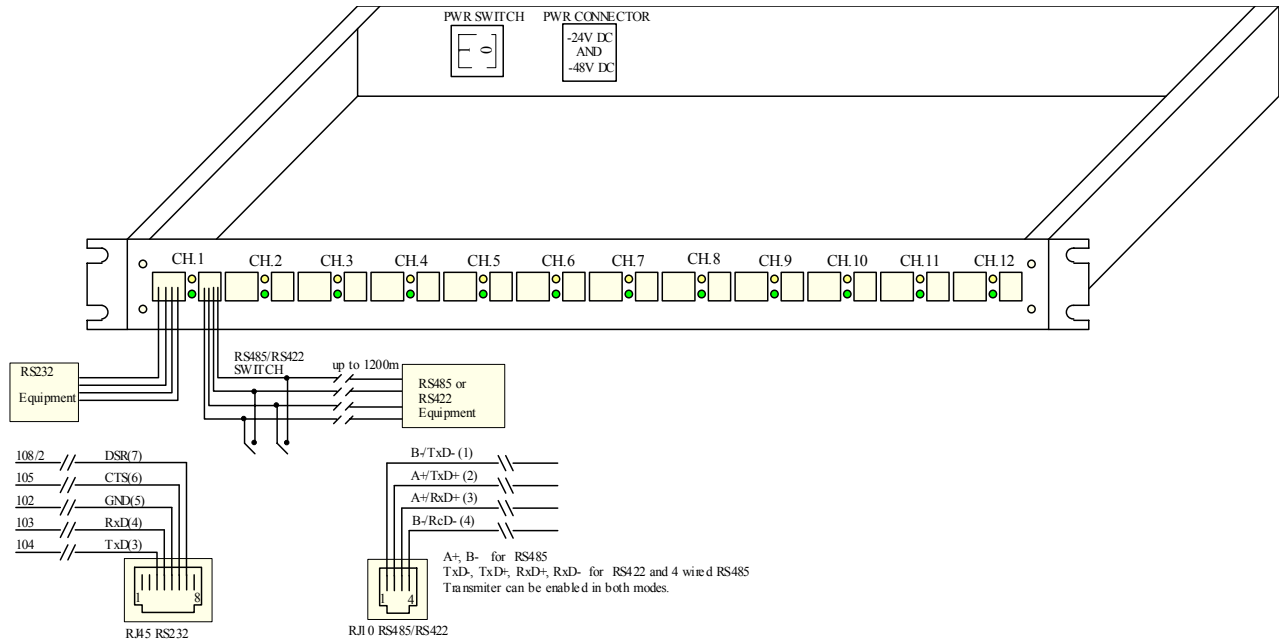
RS485 - RJ11  
 1 - Tx- (B-)  
 2 - Tx+ (A+)  
 3 - Rx+ (A+)  
 4 - Rx- (B-)

RS232 - RJ45  
 1,2,8 - NC  
 3 - TxD (OUT)  
 4 - RxD (IN)  
 5 - GND  
 6 - CTS (IN) Control signal  
 7 - DSR (IN) Control signal

**RS485** – A(+), B(-)  
**RS422** – Rx+, Rx-, Tx+, Tx-

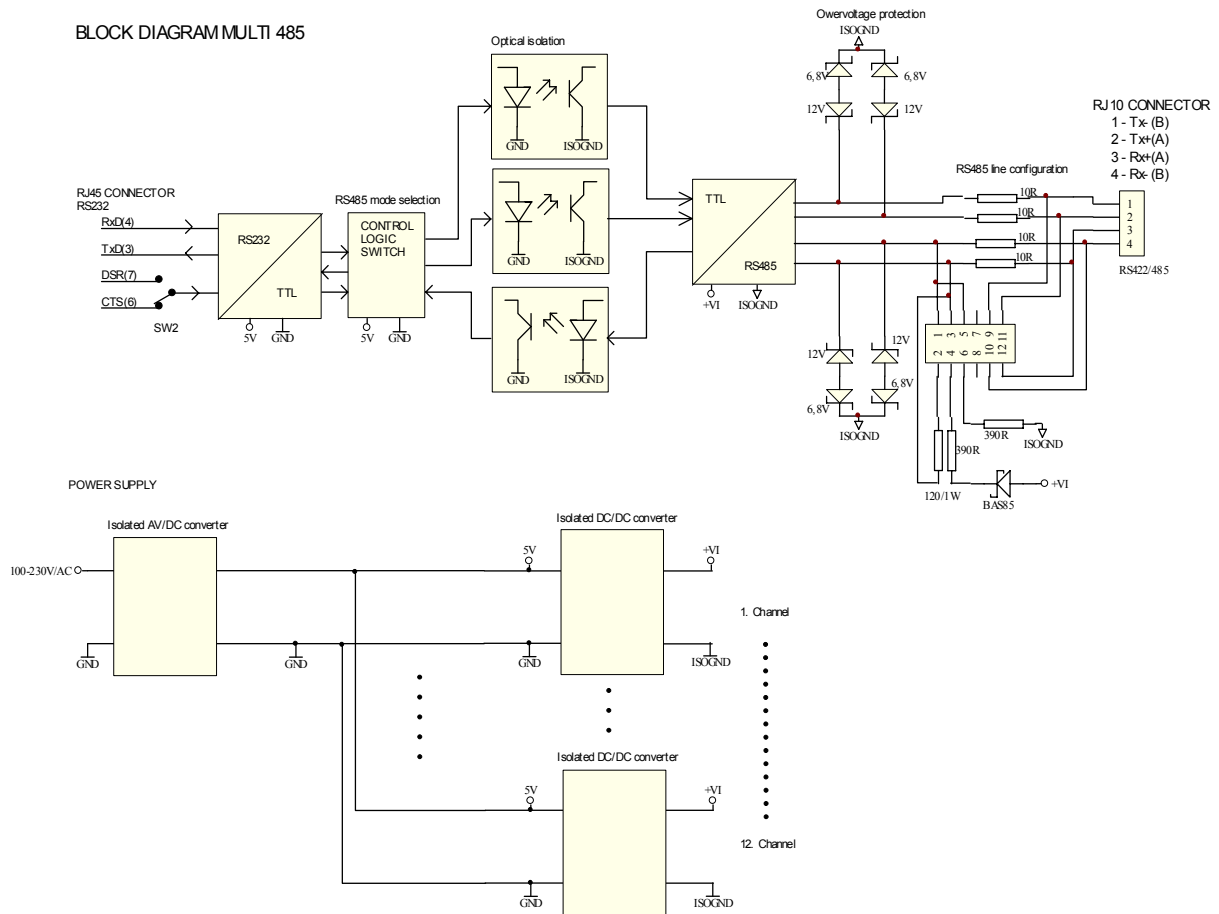
**RJ10 - RS485/RS422**  
 1 Tx- (B-)  
 2 Tx+ (A+)  
 3 Rx+ (A+)  
 4 Rx- (B-)

**RJ45 – RS232**  
 3 TxD (OUT)  
 4 RxD (IN)  
 5 GND  
 6 CTS (IN) – Control signal  
 7 DSR (IN) – Control signal



## BLOCK DIAGRAM

BLOCK DIAGRAM MULTI 485



Front panel



Rear panel

