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APARATURA KONTROLNO - POMIAROWA

## CONV485USB -I RS-485 / USB CONVERTER WITH GALVANIC SEPARATION



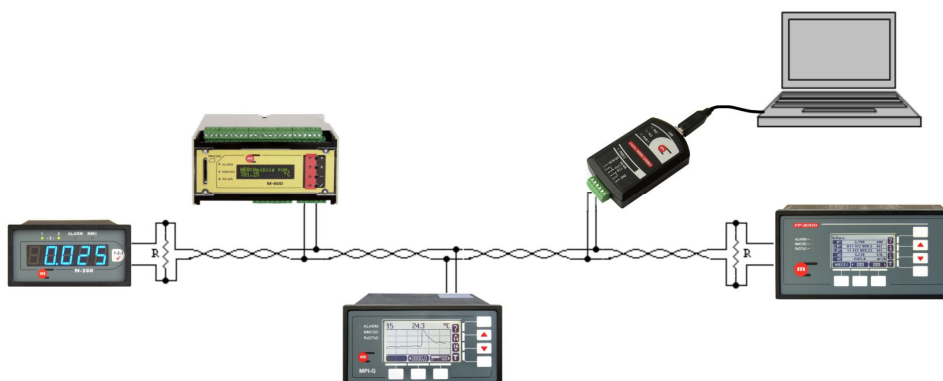
## CONV485USB RS-485 / USB CONVERTER (for service purpose)

- RS-485 standard to USB conversion, supply from USB port, up to 115,2 kbps baud rate
- Galvanic separation (CONV485USB-I), line length up to 1300 m
- LED diodes for work state and data transmission signalization
- Easy software installation on PC computer

### APPLICATIONS:

- Connecting devices with RS-485 port to PC computer
- Device configuration through serial port, service purposes
- Data transmission in visualization systems

CONV485USB-I and CONV485USB allow connecting devices with RS-485 port to computers USB port. After proper installation of the converter and Virtual COM PORT drivers user is able to use software which is using communication ports COM (used as RS-232 serial port in old systems).



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APARATURA KONTROLNO - POMIAROWA

31-261 Kraków, ul. Wyblckiego 7  
tel./fax: +48 12 623-75-99, 632-69-77  
www.metronic.pl  
metronic@metronic.pl





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## TECHNICAL DATA

### CONV485USB-I

- USB:

|           |  |
|-----------|--|
| Standard: | In compliance with USB 1.1 and USB 2.0 |
|-----------|--|
- RS-485:

|   |  |
|---|--|
| Baud rate:                                  | 300 bps .. 115,2 kbps  |
| Maximal number of transmitters / receivers: | 32   |
| Differential output voltage (TxD):          | Nominal 5 V, for $R_L = \infty$<br>Min. 1,5 V, for $R_L = 27 \Omega$ |
| Short circuit current (A and B, TxD):       | Max. 250 mA  |
| Receiver input resistance (RxD):            | 12 k $\Omega$  |
| Minimal input voltage (RxD):                | 0,2 V  |
| Acceptable voltage on A,B terminals:        | +/-12 V (max)  |
| Short-circuit protection:                   | Yes  |
| Line RS-485 terminating resistor:           | 220 $\Omega$ +2x 390 $\Omega$ , external                             |
- Others:

|   |                            |
|---|----------------------------|
| Power supply:   | From USB port              |
| Rated current:  | Max. 350 mA (nominal work) |
| USB / RS-485 galvanic separation:                       | 500 VAC                    |
| Work temperature:                                       | 0 .. +50 °C                |
| Store temperature:                                      | -20 .. +60 °C              |
| Dimensions (without terminals) length x width x height: | 93 mm x 57 mm x 21 mm      |
| Weight:   | About 65 g                 |
- Operating system:

|                                     |  |
|-------------------------------------|--|
| For VCP (Virtual COM PORT Drivers): | Win98 / 98SE, Win2000 / ME / XP / Vista<br>MAC OS-8 and OS-9, MAC OS-X |
| For D2XX (USB Direct Drivers):      | Win 98 / 98SE, Win2000 / ME / XP / Vista                               |

### CONV485USB

- USB:

|           |  |
|-----------|--|
| Standard: | In compliance with USB 1.1 and USB 2.0 |
|-----------|--|
- RS-485:

|   |  |
|---|--|
| Baud rate:                                  | 300 bps .. 230,4 kbps                                      |
| Maximal number of transmitters / receivers: | 32 (limited line length and without terminating resistors) |
| Differential output voltage (TxD):          | 5 V (min. 1,5 V)   |
| Receiver input resistance (RxD):            | 12 k $\Omega$  |
| Minimal input voltage (RxD):                | 0,2 V  |
| Acceptable voltage on A,B terminals:        | +/-12 V (max)  |
| Short-circuit protection:                   | Yes  |
- Others:

|   |                                     |
|---|-------------------------------------|
| Applications:   | For service purpose only            |
| Power supply:   | From USB port                       |
| Rated current:  | 35 mA (without load on RS-485 side) |
| USB / RS-485 galvanic separation:                       | No                                  |
| Work temperature:                                       | 0 .. +50 °C                         |
| Store temperature:                                      | -20 .. +60 °C                       |
| Dimensions (without terminals) length x width x height: | 56 mm x 31 mm x 25 mm               |
| Weight:   | About 25g                           |
- Operating system:

|                                     |   |
|-------------------------------------|---|
| For VCP (Virtual COM PORT Drivers): | Win 98SE, Win 2000 / ME / XP / Vista<br>MAC OS-8 and OS-9, MAC OS-X |
| For D2XX (USB Direct Drivers):      | Win 98SE, Win2000 / ME / XP / Vista                                 |

Document version: 2009-03-16



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