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USB - RS485 INTERFACE

IF485U

USER MANUAL

1. Application and construction

The IF485U interface is used to connect devices equipped with an RS485 port to a computer with a USB port and installed Windows®.

The electronic system is placed in a plastic housing equipped with a USB-B socket on one side and a detachable terminal for connecting the RS485 cable on the other. The interface is powered from a USB port and provides galvanic separation computer - Rs485 device. Two-way data transmission is signaled by lighting of appropriate LEDs: RxD (green) - the computer is receiving, TxD (yellow) - the computer is transmitting.
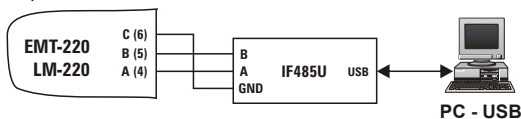
2. Software installation

For interface communication with the computer, it is necessary to install its drivers.

Together with the installation instructions they are on the enclosed CD.

This installation will cause that after connecting the interface to the computer will be available an additional virtual serial port.
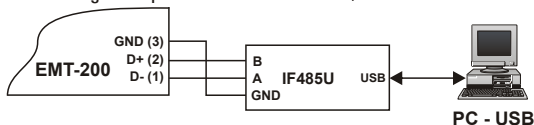
The current version of the drivers can also be downloaded from www.czaki.pl

from IF-485U product page.

3. Connection diagrams to Czaki's devices

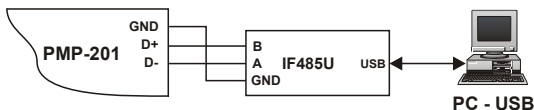3.1. Connecting a temperature meter EMT-220-RS-485
    and process monitor LM-220-RS-485
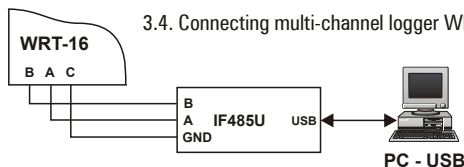
```
EMT-220    C (6)        B
LM-220     B (5)        A    IF485U    USB  ◄───►   PC - USB
           A (4)        GND
```

3.2. Connecting a temperature meter EMT-200 / RS-485

```
           GND (3)      B
EMT-200     D+ (2)      A    IF485U    USB  ◄───►   PC - USB
            D- (1)      GND
```

3.3. Connecting multi-channel switch PMP-201 / RS-485

```
            GND         B
PMP-201      D+         A    IF485U    USB  ◄───►   PC - USB
             D-         GND
```

3.4. Connecting multi-channel logger WRT-16

```
WRT-16
B A C                   B
                        A    IF485U    USB  ◄───►   PC - USB
                        GND
```

4. Technical data

- Computer side connector   USB-B socket
- Computer signal standard   USB1.1, USB2.0
- Supply current   ca. 25 mA
- Galvanic insulation between connectors   500 V AC
- Length of USB A4-B4 cable in set   2,0 m
- RS-485 standard   TIA/EIA-485-A
- Maximum baud rate   230400 bps
- Ambient temperature   0...+50 °C
- Dimensions   50 x 35 x 20 mm
- Weight   ca. 20 g

5. Maintenance

The device does not require periodic maintenance.

In case of damage please contact CZAKI THERMO-PRODUCT Sales Department.

6. Contens of package

- IF-485U interface
- USB A4-B4 cable
- RS485 plug
- User's Guide