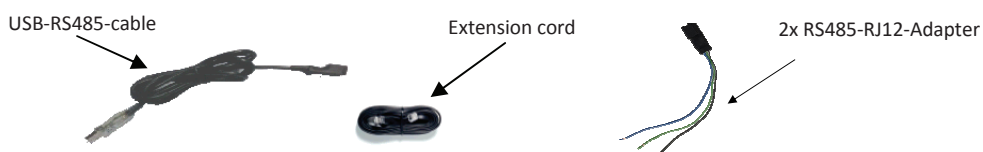# Installation and User Guide LOMK218

### Description

LOMK218 is a tool for USB-RS485-conversion, including the USB-RS485-Kabel "USB-RS485-WE-1800-BT" of FTDI with RJ12-socket attached and an additional extension cord with RJ12-header at both ends. Data rates up to 250kBaud are supported.
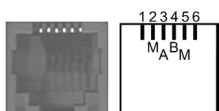
USB-RS485-cable　　　　　　　　　　Extension cord　　　　　　　　2x RS485-RJ12-Adapter

### Technical data

| | |
|---|---|
| Rated voltage | 5VDC (USB powered) |
| Indicator | Red and green LED |
| Ambient temperature (storage) | -30 … 85°C |
| Ambient temperature (operation) | -20 … 55°C |
| Relative humidity | 5 … 95% |
| IP rating | IP20 |
| Headers | USB: Type-B |
| | RS485: RJ12 |

### Declaration of conformity

The USB-RS485-cable (FTDI) of LOMK218 is CE and FCC certified
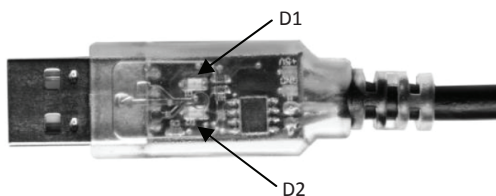
### Header and indicator

M: Ground (Ground RS485 is connected to ground USB with a 100Ω-resistor)

A: D- (RS485)

B: D+ (RS485)

D1 blinking red, if converter is transmitting data to RS485

D2 blinking green, if converter is receiving data from RS485

| Step | To-do |
|---|---|
| 1 | Installation of driver:<br><br>LOMK218 includes a chipset of FTDI; necessary driver is provided at<br>http://www.ftdichip.com/Drivers/VCP.htm for download.<br>ABL SURSUM will not take any warranty for correct function of driver!<br><br>Currently Supported VCP Drivers:<br><br><br><br>Use "setup executable" for Windows®-OS<br><br>*includes the following versions of the Windows operating system: Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows Server 2008 R2.<br><br>„setup executable" automatically installs driver on PC<br><br>After installation LOMK218 can be connected to PC by included USB-cable.<br>Target device must not be connected to RS485-header!<br>LOMK218 is detected by PC automatically as virtual COM-port (VCP)<br>Communication via LOMK218 is enabled by using assigned COM-port |
| 2 | Connect target device to RS485-header with supplied RJ12-cable.<br><br>⚠ Target device is not supplied by LOMK218; an independent power-supply is required. |
| 3 | Communication via VCP is now established between PC and target-device |

**Trouble-shooting**

| Problem | To do |
|---|---|
| LOMK218 is not detected by PC | Check download and installation of correct driver. |
| Malfunction of data-transfer | Restart LOMK218 by reconnecting USB-cable; RS485-headers must be left unconnected until LOMK218 is detected by PC properly |