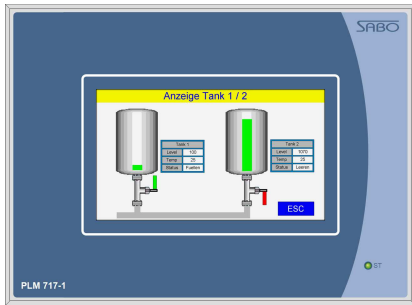


## Description:

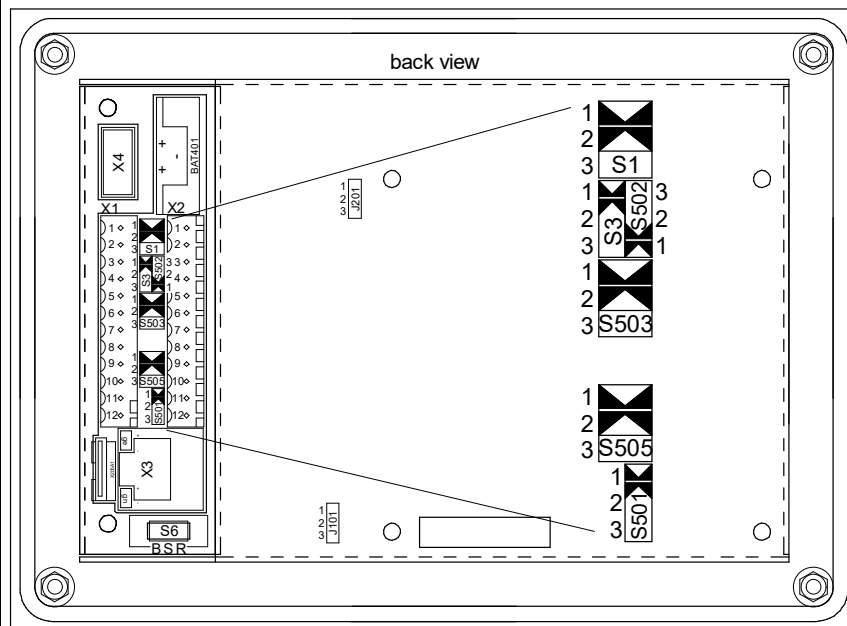


- **Master Terminal PLM 717-1 with CPU A9/450**
- **4,3" WQVGA Touch Display**
- **TFT 480 x 270 Dots**
- **1 x RS 232, 2 x RS 485, 2 x CAN**
- **1 x USB, 1 x Ethernet**
- **1 x SD Memory Card Slot**
- **128 MB RAM, 4 GB FLASH**
- **64 kB Retain**

## MTB.717.15 D1

Master Terminal with 4,3" WQVGA Touch Display (TFT, 480 x 270 Dots).  
 Backlight is enabled, when touch is pressed. Backlight deactivation is freely programmable.  
 Interfaces: 1 x RS 232 (RXD, TXD), 2 x RS 485, 2 x CAN, 1 x USB, 1 x Ethernet, 1 x SD Memory Card Slot  
 128 MB RAM, 4 GB FLASH, 64 kB Retain  
 Module equipped with pluggable screw-type terminals, Aluminum box for circuit cabinet installation.

## Terminal Connection:



- X4** USB Host  
**BAT401** battery  
**R327** contrast
- |                   |                    |
|-------------------|--------------------|
| <b>X1</b>         | <b>X2</b>          |
| 1 PE              | 1 AE00 / RS 485A_2 |
| 2 0 VDC           | 2 AE01 / RS 485B_2 |
| 3 24 VDC          | 3 DGND             |
| 4 Watchdog/CAN1-H | 4 24 VDC DA        |
| 5 Watchdog/CAN1-L | 5 DA00             |
| 6 RS 232 RXD 0    | 6 DA01             |
| 7 RS 232 TXD 0    | 7 DA02             |
| 8 RS 485A_1       | 8 DA03             |
| 9 RS 485B_1       | 9 DE00             |
| 10 not connected  | 10 DE01            |
| 11 CAN0-H         | 11 DE02            |
| 12 CAN0-L         | 12 DE03            |
- X3** Ethernet  
**S6** slide switch CPU status  
 B Boot ⇨ bootloader active  
 S Stop ⇨ IEC 1131 user lock  
 R Run ⇨ auto start

## Technical Specifications:

**Supply**  
 24 VDC ±10 %, max. deviation 5 %

**Operating current**  
 Basic device approx. 230 mA

**Display**  
 4,3" WQVGA Touch Display, resistive, 4-wire TFT, 480 x 270 Dots, graphic display

**System**  
 Microcontroller CPU A9/450 with Interface CAN

**Memory**  
 128 MB RAM, 4 GB FLASH, 64 kB Retain

**Interfaces serial**  
 1 x RS 232, RXD, TXD  
 2 x RS 485  
 2 x CAN BUS  
 1 x Ethernet TCP/IP  
 1 x USB Host

**SD Memory Card Slot**  
 for SD cards

**Status Indication**  
 1 LED module status indication

**Digital Inputs**  
 4 Digital Inputs 24 VDC (DE00 ... DE03)

**Digital Outputs**  
 4 Digital Outputs 24 VDC, Transistor (DA00 ... DA03)

**Watchdog Relay**  
 Watchdog with relay output  
 Change-over contact 24 VDC

**Battery 3 V / 170 mAh**  
 Durability approx. 2 years (Manufacturer Information), Data preservation during battery change approx. 2 hours.

**Realtime Clock**  
 Clock with Date, Data preservation via battery

**Climatic Conditions**  
 storage temperature -10...+70 °C  
 surrounding area temperature +5...+40 °C  
 atmospheric moisture until 85 % without condensation according to VDE 0160, EN 50178, Rating 3K3

**General Informations**  
 Use shielded cables for serial data lines.  
 The Master Terminal requires sufficient grounding!

**SPS Programming**  
 IEC 61131-3 / CODESYS

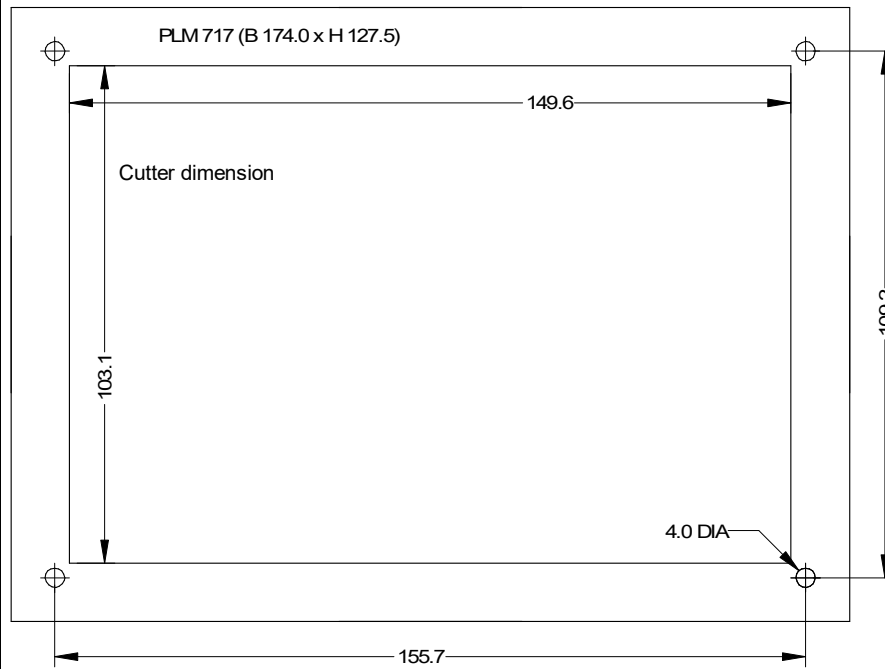
**Protection Category**  
 according to DIN 40050  
 IP 65 (front side)  
 IP 20 (back side)

**Mechanical Specifications**  
 Aluminum box for circuit cabinet installation  
 pluggable screw-type terminals  
 Dimensions: width x height x depth  
 174,0 x 127,5 x 50 mm  
 Weight approx. 460 g

**Installation Advices**  
 Please pay attention to the separate informations about EMC-compatible hardware installation in the systems manual of the SABO Elektronik GmbH.  
 downloadable via <http://www.sabo.de>

## Cutout dimensions for circuit cabinet installation:

## MTB.717.15 D1



**Please note the following cutout dimensions for circuit cabinet installation:**

Assembly dimension:  
width x height x depth  
174,0 x 127,5 x 50 mm

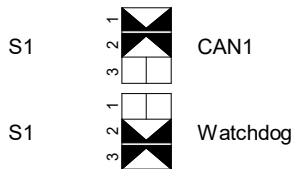
Cutter dimension:  
width 149,6 mm x height 103,1 mm

4 drilled holes Ø 4,0 mm  
for 4 stud bolts M3

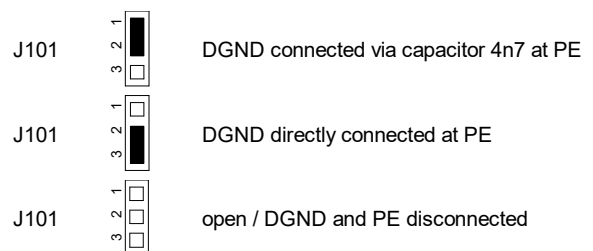
## Configuration:

### Changeover switching Watchdog or CAN1

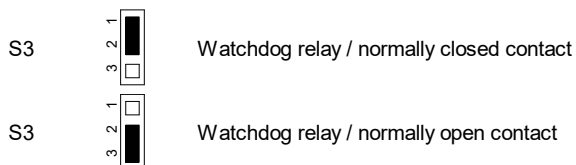
Slide switch S1 for changeover on terminal X1:4 and X1:5  
Watchdog mode or CAN1 mode on terminal X1:4 and X1:5.  
Combined mode is not possible!



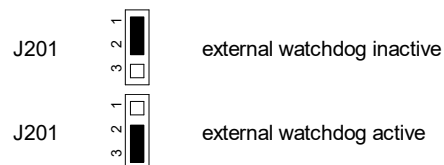
### Jumper DGND / PE



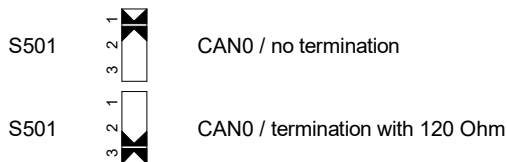
### Slide switch Watchdog



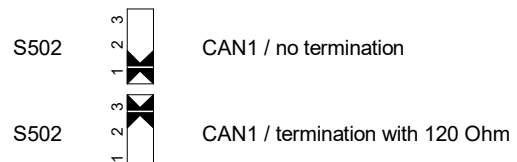
### Jumper Watchdog



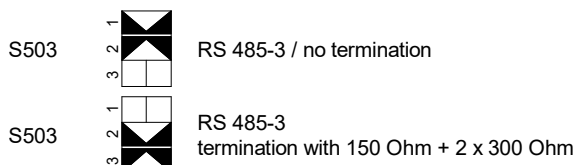
### Slide switch CAN0 termination



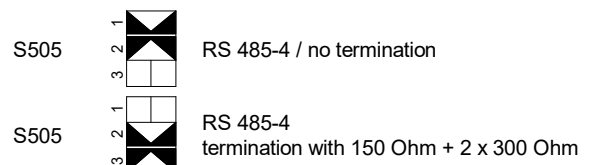
### Slide switch CAN1 termination



### Slide switch RS 485-3 termination



### Slide switch RS 485-4 termination



## Installation Advices:

MTB.717.15 D1

### Configuration

Warning! Please note the internal configuration, the firmware version and mounting details before module installation.

### Mounting

Do not plug the extension module when a voltage is supplied, because module damage or data loss are possible.

### CAN Bus Termination

In standard termination the microprocessor module respectively the first fieldbus module and in addition the last fieldbus module should be terminated. Maximum two terminations are allowed.

### Installation Advices

Please pay attention to the separate informations about EMC-compatible hardware installation in the systems manual of the SABO Elektronik GmbH.

downloadable via <http://www.sabo.de>

## Device:

Master Terminal PLM 717-1 with CPU A9/450

## Order Code:

MTB.717.15