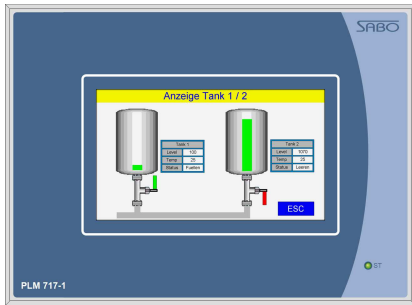


Description:



- **Master Terminal PLM 717-1 with CPU A9/450**
- **4,3" WQVGA-Touch-Display**
- **TFT 480x270 Dots**
- **1x RS232, 2x RS485, 2x CAN**
- **2x USB, 1x Ethernet**
- **1x SD-Memory-Card Slot**
- **4x DI, 4x DO**
- **128 MB RAM, 4 GB FLASH**
- **64 kB Retain**

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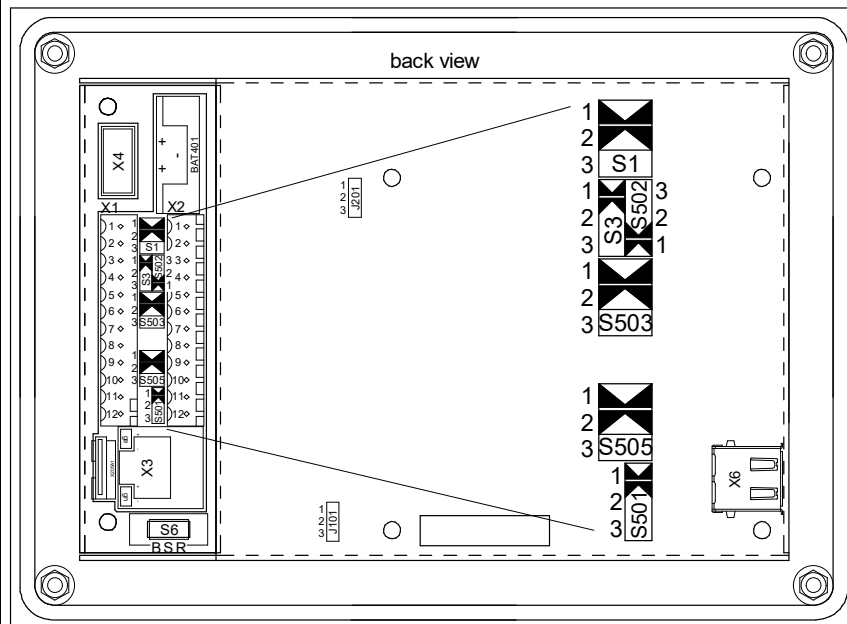
Master Terminal with 4,3" WQVGA Touch Display (TFT, 480 x 270 Dots), graphics capable. Backlight is enabled, when touch is pressed. Backlight deactivation is freely programmable.

Interfaces: 1x RS232 (RXD, TXD), 2x RS485, 2x CAN, 2x USB, 1x Ethernet, 1x SD Memory Card Slot, 4x Digital Input, 4x Digital Output.

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-0
- BAT401** Battery
- X1**
 - 1 FE
 - 2 GND
 - 3 24VDC
 - 4 WD-1 / CAN-1-H
 - 5 WD-2 / CAN-1-L
 - 6 RS232-0-RX
 - 7 RS232-0-TX
 - 8 RS485-1-A
 - 9 RS485-1-B
 - 10
 - 11 CAN-0-H
 - 12 CAN-0-L
- X2**
 - 1 RS485-2-A
 - 2 RS485-2-B
 - 3 DGND
 - 4 24VDC-DA
 - 5 DA00
 - 6 DA01
 - 7 DA02
 - 8 DA03
 - 9 DE00
 - 10 DE01
 - 11 DE02
 - 12 DE03
- X3** Ethernet-0
- S6** slide switch CPU status
 - B Boot ⇔ bootloader active
 - S Stop ⇔ IEC 1131 user lock
 - R Run ⇔ auto start
- X6** USB-1

Technical Specifications:

Supply

24VDC ±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

- 1x RS232 (RX, TX)
- 2x RS485
- 2x CAN BUS
- 1x Ethernet TCP/IP
- 2x USB Host

SD Memory Card Slot

for SD cards

Status Indication

1 LED module status indication

Digital Inputs

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

Digital Outputs

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

Watchdog Relay

Watchdog with relay output
Change-over contact 24 VDC

Battery 3V / 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

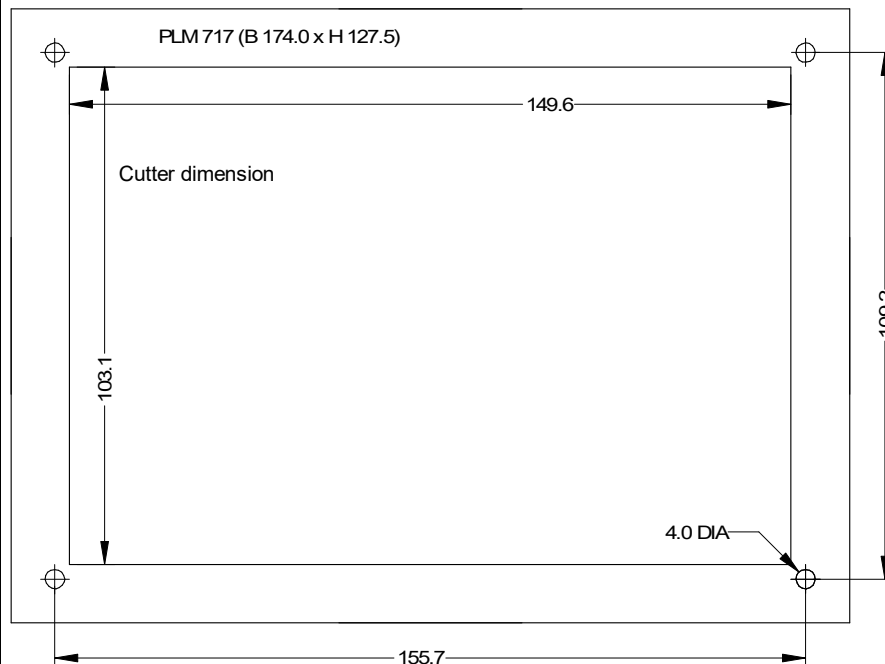
Installation Advices

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:

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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

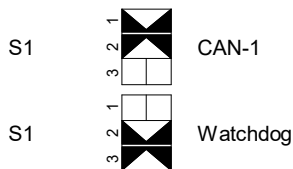
Cutter dimension:
width 149,6 mm x height 103,1 mm

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

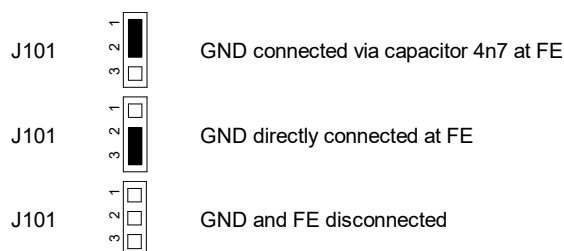
Configuration:

Changeover switching Watchdog or CAN1

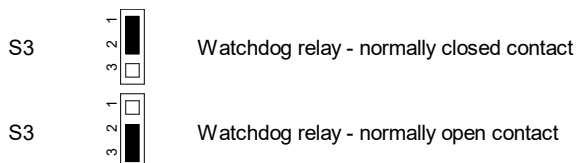
Slide switch S1 for changeover on terminal X1:4 and X1:5
Watchdog mode or CAN-1 mode on terminal X1:4 and X1:5.
Combined mode is not possible!



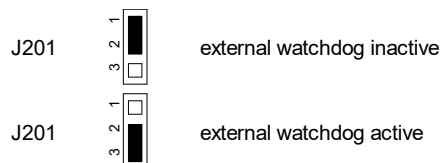
Jumper GND / FE



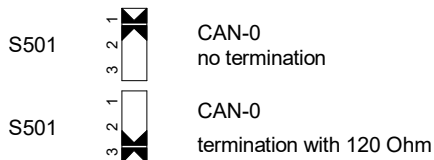
Slide switch Watchdog



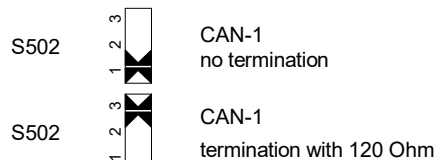
Jumper Watchdog



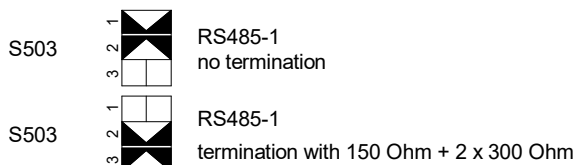
Slide switch CAN-0 termination



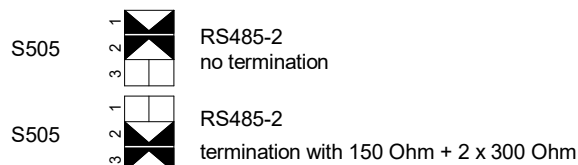
Slide switch CAN-1 termination



Slide switch RS485-1 termination



Slide switch RS485-2 termination



Installation Advices:

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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