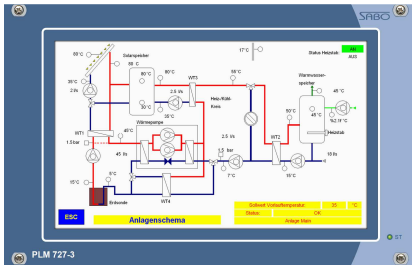


Description:

MTB.727.35 D1



- **Master Terminal PLM 727-3 with CPU A9/450**
- **7" WVGA Touch Display**
- **TFT 800 x 480 Dots**
- **2x RS232 / RS485, 2x CAN**
- **2x USB, 1x Ethernet**
- **1x SD Memory Card Slot**
- **128 MB RAM, 4 GB FLASH**
- **64 kB Retain**

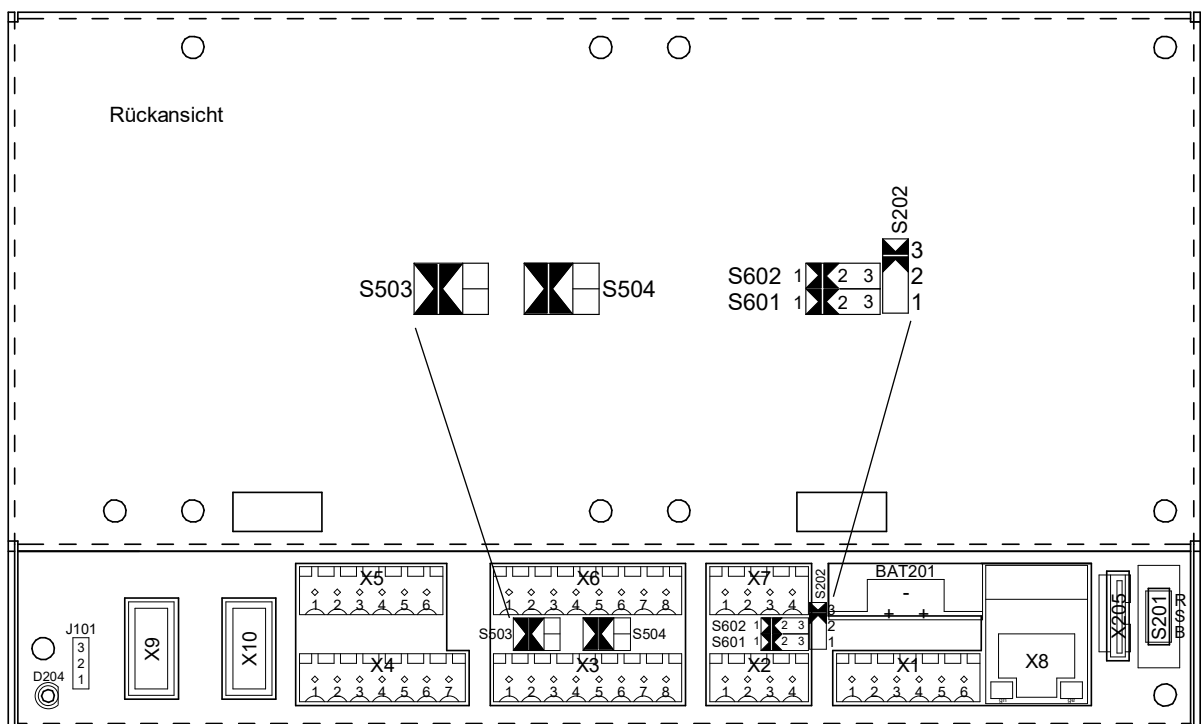
Master Terminal PLM 727-3 with CPU A9/450 and 7" WVGA Touch Display (TFT, 800 x 480 Dots). Graphics capable. Backlight is enabled, when touch is pressed. Backlight deactivation is freely programmable.

128 MB RAM, 4 GB FLASH, 64 kB Retain

Interfaces: 2x RS232 (RX, TX) or 2x RS485, 2x CAN, 2x USB
1x Ethernet, 1x SD Memory Card Slot

Module equipped with pluggable screw-type terminals, 3 HE, 40 TE for 19" rack.

Terminal Connection:





D204 Status LED		X5 1 DGND 2 24VDC-DA 3 DA00 4 DA01 5 DA02 6 DA03	X6 1 DGND 2 RS232-1-RX 3 RS232-1-TX 4 RS232-1-RTS 5 RS232-1-CTS 6 RS485-0-A 7 RS485-0-B 8 RS485-0-GND	X7 1 CAN-1-GND 2 3 CAN-1-H 4 CAN-1-L	S201 slide switch CPU status R Run ⇨ autostart S Stop ⇨ IEC 1131 user lock B Boot ⇨ bootloader aktive	
X9 USB-0	X10 USB-1	X4 1 DE00 2 DE01 3 DE02 4 DE03 5 6 7 DGND	X3 1 DGND 2 RS232-0-RX 3 RS232-0-TX 4 RS232-0-RTS 5 RS232-0-CTS 6 RS485-1-A 7 RS485-1-B 8 RS485-1-GND	X2 1 DGND 2 3 CAN-0-H 4 CAN-0-L	BAT201 battery	
				X1 1 FE 2 GND 3 24VDC 4 WD-COM 5 WD-NC 6 WD-NO	X8 ETH-0	X205 (optional) Micro SD



Configuration:

MTB.727.35 D1



Slide switch RS485-0 termination

- S503  RS485-0
no termination
- S503  RS485-0
termination with 150 Ohm + 2 x 300 Ohm



Slide switch RS485-1 termination

- S504  RS485-1
no termination
- S504  RS485-1
termination with 150 Ohm + 2 x 300 Ohm



Slide switch CAN-0 termination

- S601  CAN-0
no termination
- S601  CAN-0
termination with 120 Ohm




Slide switch CAN-1 termination

- S602  CAN-1
no termination
- S602  CAN-1
termination with 120 Ohm

Slide switch hardware watchdog

- S202  external hardware watchdog inactive
- S202  external hardware watchdog active

Jumper GND / FE

- J101  GND connected via capacitor 4n7 at FE
- J101  GND directly connected at FE
- J101  GND and FE disconnected

Slide switch CPU status

- S201 **R** Run auto start
- S201 **S** Stop IEC 1131 user lock
- S201 **B** Boot bootloader active

Technical Specifications:

MTB.727.35 D1

Supply

24VDC $\pm 10\%$, max. deviation 5 %

Operating current

Basic device approx. 300 mA
additionally digital outputs

Display

7" WVGA Touch Display, resistive, 4-wire
TFT, 800 x 480 Dots, graphics capable

System

Microcontroller CPU A9/450 with
Interface CAN

Memory

128 MB RAM, 4 GB FLASH, 64 kB Retain

Interfaces serial

2x RS232 (RX, TX) or RS485 (max 2
interfaces usable)
2x CAN BUS
2x USB
1x Ethernet TCP/IP

SD Memory Card Slots

1x SD Card Slot
1x Micro SD Card Slot (optional)

Status Indication

1 LED module status indication

SPS Programming

IEC 61131-3 / CODESYS

Digital Inputs

4 Digital Inputs 24VDC, $\pm 10\%$, 10 mA
(DE00 ... DE03)

Digital Outputs

4 Digital Outputs Transistor, 24VDC 0,5 A
(DA00 ... DA03)

Watchdog Relay

Watchdog with relay output
Change-over contact 24VDC

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 $-10...+70\text{ }^{\circ}\text{C}$
surrounding area temperature $+5...+40\text{ }^{\circ}\text{C}$
atmospheric moisture until 85 % without
condensation according to VDE 0160,
EN 50178, Rating 3K3

Mechanical Specifications

Aluminum box for 19" rack installation
pluggable screw-type terminals
Dimensions width x height x depth:
40 TE x 3 HE x 45 mm
Weight approx. 650 g

General Informations

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

Protection Category

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

Conformity

Transient Emissions	EN 61000-6-4:2007
Interference Resistance	EN 61000-6-2:2005
Burst	EN 61000-4-4:2004

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>

Installation Advices:

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 727-3 with CPU A9/450

Order Code:

MTB.727.35