

...



TP121N

## TP121N

### MMI SYSTEM FOR DISPLAY, OPERATION AND AS COMMUNICATION MASTER WITH 12.1" COLOUR DISPLAY AS TOUCH SCREEN

Control and display unit as a master for controlling and operating an entire system

- With TROXNETCOM Basic User Software for rapid and safe commissioning and configuration
- Touch display as communication master for 28 controller and power units
- High-quality touch display in four sizes: 4.3", 5.7", 10.4" and 12.1"
- Integration with higher-level systems via Modbus or BACnet/ip interface (no additional effort required)
- For automated function tests including logging
- Display of all system status values
- PLC also for safety related control according to SIL

## Application



### Application

- 12.1" MMI system for display and operation, also as communication master for up to 28 AS-i controllers TNC-A1305/06
- ModBus RTU/TCP and BACnet/IP interfaces for integration with the central BMS
- With TNC Basic User Software

## TECHNICAL INFORMATION

Description	TP121N
Display	TFT (colour)
Operation	Touch screen
Resolution	800 × 600 pixels
Display angle vertical/horizontal	110/140°
Display area B × H	246 × 185 mm
Diagonal	12.1"
Casing	Galvanised sheet steel
Front material	Aluminium, anodised (natural colour)
Front B × H × T	340 × 270 × 5 mm
Cut-out B × H	315 × 243.5 mm
Installation depth without plug attached	Approx. 65 mm
Protection level	Front IP 65, back IP 20
Total weight	Approx. 2500 g
Interfaces	RS232, TTY, USB, Ethernet and field bus interface PROFIBUS DP master
Memory	1 GB flash, 128 MB flash SDRAM, 1 MB SRAM, battery pack
Temperature range for operation	0 to 50 °C
Temperature range for storage	-25 to 70 °C
Rel. humidity for operation and storage	20 – 85 %, non-condensing
Supply voltage	24 V DC (SELV/PELV to EN 61131)
Residual ripple	Max. 10 %
Minimum voltage	18 V
Maximum voltage	30 V
Current consumption (typically 24 V)	0.7 A
Current consumption (max.)	1.0 A
Power required	16.8 W
EMC immunity	EN 61000-4-2 to 4-6
Vibration	EN 60068-2-6
Shock	EN 60068-2-27

### Standard description (characteristics)

MMI system for display, operation and as communication master

- 12.1 " colour display, touch screen
- Interfaces: ModBus RTU/TCP and BACnet/IP interfaces for integration with the central BMS
- With Basic User Software for controlling and for the display of all system status values
- Automatic recognition of TROX modules and their functions
- Network control
- Automatic functional test, including documentation
- Real time clock
- 4 digital inputs/outputs, interfaces COM2=RS485, COM1=RS232, Ethernet, USB
- Dimensions of front panel (B × H × T): 340 × 270 × 5 mm
- Protection level: Front IP 65; back IP 20
- Supply voltage 24 V DC
- Make: TROX GmbH or equivalent
- Typ: TP121N

...

# TP043N



## **1** Master and display

### units

<b>TP043N</b>	Display 4.3"
<b>TP057N</b>	Display 5.7"
<b>TP104N</b>	Display 10.4"
<b>TP121N</b>	Display 12.1"