

Description

The **PowerPlex®** Touch Panel TP071 is a robust, highly reliable panel PC with a 7.0" capacitive touch screen for an easy control of **PowerPlex®** installations. You can make a pinpoint entry with a light touch on the screen.

PowerPlex® is a modular, CAN bus based control system which helps realise intelligent on-board electrical systems on boats, and recreational vehicles. A **PowerPlex®** system connects and controls a wide range of tasks and electrical components in complex on-board electrical systems. All control modules ensure a reliable and efficient power supply of all functionally relevant components. The wide range of the **PowerPlex®** series offers various options to run processes automatically or to link them to conditions.

By means of the **PowerPlex®** configuration software, the application-specific logics for power distribution, power control and power monitoring can be defined, adjusted and saved. The communication is done via the **PowerPlex®** CAN, based on SAE J1939.

Typical applications

- Buses, recreational vehicles, mobile homes etc.
- Watercraft, e.g. leisure boats, workboats

Features

- Visualisation and intuitive operation
- High response speed
- High resolution for precision and image fidelity
- Freely configurable user interface
- Clear text messages indicate system conditions (e.g. tank empty)
- System status control and monitoring
- Integration and display of sensor units (tank, battery, temperature)

Order number

PP-M-TP071-000-0-Z-00

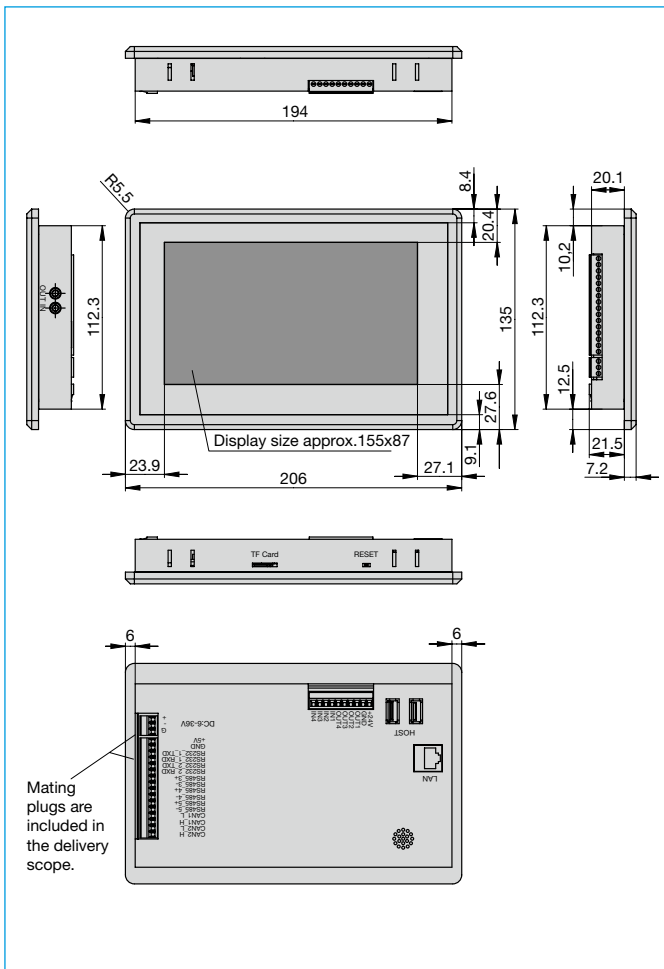


Technical data

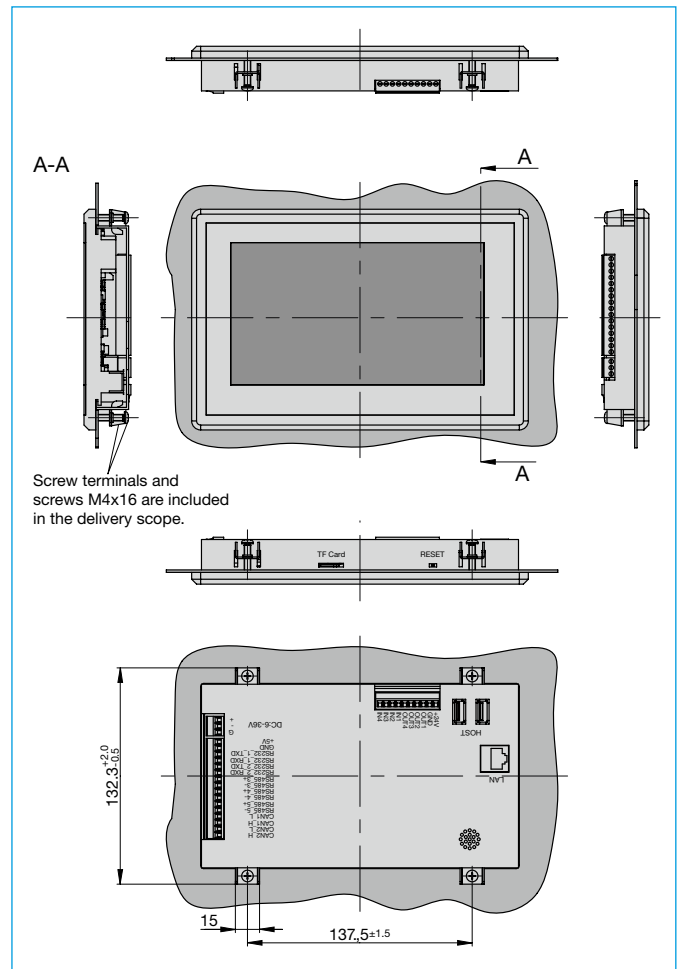
Display size	7.0"
Resolution	1024 x 600 pixels
Touch sensor	capacitive touch
Brightness	typically 500 cd/m ²
Voltage ratings	DC 12 V/24 V
Operating voltage	DC 6 ... 36 V
Max. current consumption	500 mA at DC 12 V
Degree of protection	IP22
Operating temperature range	-20 ... +70 °C (-4 ... +158 °F)
Storage temperature range	-20 ... +70 °C (-4 ... +158 °F)
EMC	CE logo according to EN 55032:2015, EN 55035:2017
Mass	approx. 730 g
Interfaces:	
CAN I*	PowerPlex® CAN, 250 kbit/s
CAN II*	CAN II, protocol upon request
USB	2 x USB 2.0 HOST
LAN	1 x RJ45, up to 100 Mbps
Audio	internal 2 W speaker
RTC	yes, buffered by means of CR2032 button battery
RS232	2 x RS232, protocol upon request
RS485	3 x RS485, protocol upon request
GPIO	upon request: 4 x inputs 4 x insulated outputs

*) The CAN terminals at each end of the bus must be terminated with a 120 Ω resistor.

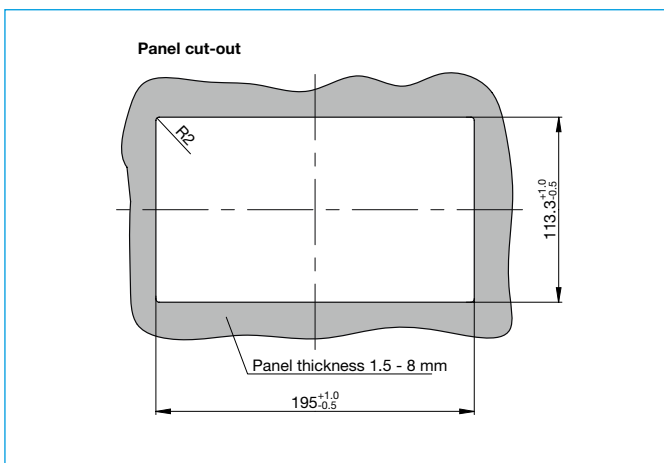
Dimensions



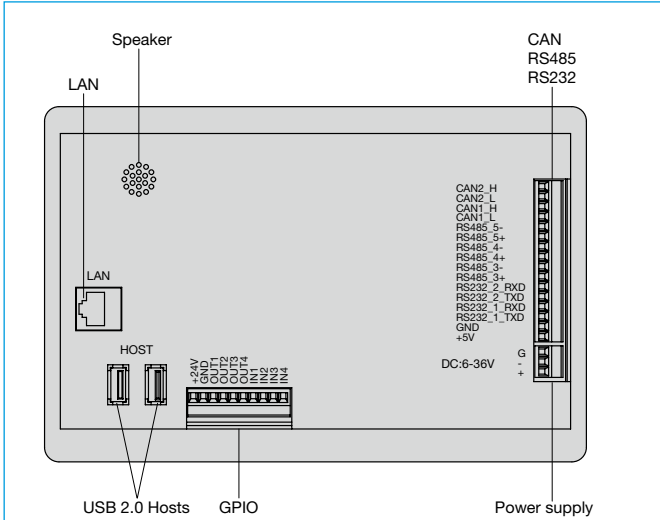
Mounting method



Mounting dimensions



Pin assignment



3-pole terminal* (X1)



Interface	Assignment	Pin
Power supply (DC 12 V/24 V; DC 6 ... 36 V)	GND (G)	1.3
	U _{Batt} - (-)	1.2
	U _{Batt} + (+)	1.1

16-pole terminal* (X2)

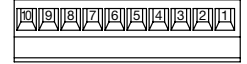


Interface	Assignment	Pin
CAN II	CAN-H	2.16
	CAN-L	2.15
CAN I: PowerPlex ® CAN	CAN-H	2.14
	CAN-L	2.13
RS485_5	(-) B _{RS485}	2.12
	(+) A _{RS485}	2.11
RS485_4	(-) B _{RS485}	2.10
	(+) A _{RS485}	2.9
RS485_3	(-) B _{RS485}	2.8
	(+) A _{RS485}	2.7
RS232_2	RxD	2.6
	TxD	2.5
RS232_1	RxD	2.4
	TxD	2.3
GND (system mass)	GND _{System}	2.2
System output (DC 5 V; up to 1 A)	+5V	2.1

*) Mating plugs are included in the scope of delivery. Individual interfaces only upon request.

Pin assignment

10-pole terminal* (X3)

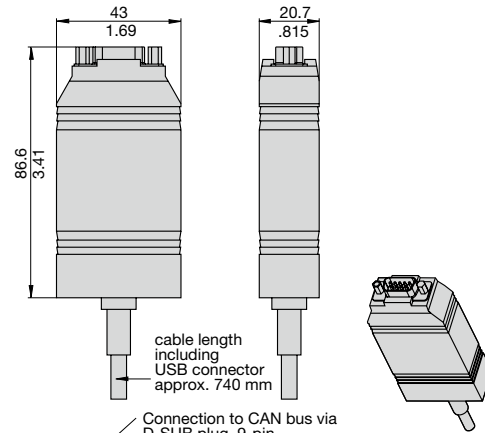


Interface	Assignment	Pin
Input 4	IN4	1.10
Input 3	IN3	1.9
Input 2	IN2	1.8
Input 1	IN1	1.7
Output 4	OUT4	1.6
Output 3	OUT3	1.5
Output 2	OUT2	1.4
Output 1	OUT1	1.3
Insulated mass input	GND	1.2
Insulated power input	+24 V	1.1

*) Mating plugs are included in the scope of delivery. Individual interfaces only upon request.

Accessories

USB/CAN converter: XPP-USBC0
XPP-USBC1 (opto-decoupled)



Pin assignment D-SUB output plug

Pin	Assignment
2	CAN-L
7	CAN-H

This is a metric design and millimeter dimensions take precedence. Applicable for nominal dimensions without direct tolerance indication: DIN ISO 286 ± IT 13. Refer to product datasheet for installation and safety instructions.

PowerPlex® Configuration Software

All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of technical improvement. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Product part numbers may differ from their marking.