



Certificate No:
TAA00003BK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Peripheral Equipment**

with type designation(s)
Power Panel T50 mobile

Issued to

B&R Industrial Automation GmbH
Eggelsberg, Oberösterreich, Austria

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature B
Humidity B
Vibration B
EMC B
Enclosure B (IP66)

Issued at **Hamburg** on **2023-10-19**

This Certificate is valid until **2028-10-18**.

DNV local unit: **Augsburg**

Approval Engineer: **Heinz Scheffler**

for **DNV**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2022-12

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Product description

Power Panel T50 mobile with display size 5,0" 7,0" 10,1"

Model number	6PMT50.0502-19B(XXX)	6PMT50.0702-19B(XXX)	6PMT50.101E-19B(XXX)
Panel Size	5.0"	7.0"	10.1"
CPU and RAM	800 MHz dual Core (ARM Cortex A9) 1 GByte RAM 512 Mbyte Flash-Drive onboard	800 MHz dual Core (ARM Cortex A9) 1 GByte RAM 512 MByte Flash-Drive onboard	800 MHz dual Core (ARM Cortex A9) 1 GByte RAM 512 MByte Flash-Drive onboard
Resolution	WVGA800 X 480	WVGA800 X 480	WVGA1280 X 800
Technology	TFT color Multi-touch PCT (glass)	TFT color Multi-touch PCT (glass)	TFT color Multi-touch PCT (glass)
Interface	1 x Ethernet 10/100 MBit/s	1 x Ethernet 10/100 MBit/s	1 x Ethernet 10/100 MBit/s
Features	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Digital Inputs	8	8	8
Digital Outputs	4 x 0,5 A	4 x 0,5 A	4 x 0,5 A

with (XXX) = {A to Z, 0 to 9, blank} for customized options, only cosmetic modifications like different color design of enclosure

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case.

Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Installing of the RAM bracket is not allowed.

Type Approval documentation

Test Reports: 80171652-00 Rev_0; 80171471-00 Rev_0; BSH Certificate No. 1131; 20201123-06_IP; No. 20210217-02_IP

Documents: Manual MAPMT50_en_V1.30; Part List 6PM.AC.PAN-101 Rev.C0; 6PMT50.101E-19B Rev. C3

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE