DNV·GL

Certificate No:
TAA000024X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)
Power Panel T50 series

Issued to
B&R Industrial Automation GmbH
Eggelsberg, OÖ, Austria

is found to comply with
DNV GL 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 GL.
Location classes:

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to the Rules shall be provided upon installation on board**

Issued at **Hamburg** on **2018-12-17**
This Certificate is valid until **2023-12-16**.
DNV GL local station: **Augsburg**

Approval Engineer: **Heinz Scheffler**

for **DNV GL**

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.

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Job Id: **262.1-029642-1**
Certificate No: **TAA000024X**

Product description

Power Panel T50 series:

T50 number key			
Type	**Screen dimension**		
6PPT50.**050**x-xxxxxx	5 inch		
6PPT50.**070**x-xxxxxx	7 inch		
6PPT50.**101**x-xxxxxx	10,1 inch		
6PPT50.**121**x-xxxxxx	12,1 inch		
6PPT50.**156**x-xxxxxx	15,6 inch		
	Resolution		
6PPT50.**0**x**02**-xxxxxx	2	WVGA (800x480) landscape	
6PPT50.xxx**B**-xxxxxx	B	HD (1366x768) landscape	
6PPT50.xxx**E**-xxxxxx	E	WXGA (1280x800) landscape	
	Display- / Touch		
6PPT50.xxxx-**x**xxxxx	1	TFT color + multi-touch PCT (glass)	
	Optional interfaces and features		
6PPT50.xxxx-x**x**xxxx	0	1 Ethernet interface	
	6	Integrated switch with second Ethernet interface	
	Front design		
6PPT50.xxxx-xx**x**xxx	A	Black, anti-glare glass design	
	B	black, glare glass design	
	G	glass design	costumized variant
	Software*		
6PPT50.xxxx-xxx**x**xx	0	B&R standard	without customer specific software
	S	customized linux image	costumized variant
6PPT50.xxxx-xxx**xxx**	000-S00	derivative: sequential number [0..Z]	costumized variant

*Software is not covered by this type approval,and is listed for information only.

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Test Reports: C44524-00-00FT; E44520-00-01LC; C44524-00-01FT; E44521-00-01LC; C44524-00-02FT; E44522-00-01LC
Documents: Power Panel T50 User`s Manual-ENG_1.21; Part list_6PPT50.101E-16A; Part list_6PPT50.121E-16A; Part list_6PPT50.156B-16A; Part list_6PPT50.0502-16B; Part list_6PPT50.0702-10G001; Part list_6PPT50.0702-16A

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016; IACS E10 Rev.6 Oct 2014

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