

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Operator Interface Displays**

with type designation(s)
6", 7", 10", 12" & 15" QuickPanel+

Issued to

GE Intelligent Platforms
CHARLOTTESVILLE, VA, United States

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Location classes:

Temperature	D
Humidity	B
Vibration	A
EMC	A
Enclosure	B / IP65 (front panel)

This Certificate is valid until **2019-06-30**.

Issued at **Høvik** on **2016-04-22**

DNV GL local station: **New York**

Approval Engineer: **Ståle Sneen**

for **DNV GL**

Odd Magne Nesvåg
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.

Product description

The QuickPanel+ is a programmable operator interface that can interface other industrial equipment through its communication interfaces. The QuickPanel+ has a Color TFT Widescreen with Multi-touch Projected Capacitive Screen in sizes up to 15".

Item No	Description
IC755CBS06RDACA	QuickPanel+, 6" Color TFT, Resistive Touch, Blank Bezel, Conformal Coated
IC755CSS06RDACA	QuickPanel+, 6" Color TFT, Resistive Touch, Standard Bezel, Conformal Coated
IC755CBW07CDACA	QuickPanel+, 7" Color TFT Widescreen, Blank Bezel, Conformal Coated
IC755CSW07CDACA	QuickPanel+, 7" Color TFT Widescreen, Standard Bezel, Conformal Coated
IC755CBS10CDACA	QuickPanel+, 10" Color TFT, Dual Ethernet, Blank Bezel, Conformal Coated
IC755CSS10CDACA	QuickPanel+, 10" Color TFT, Dual Ethernet, Standard Bezel, Conformal Coated
IC755CBS12CDBCA	QuickPanel+, 12" Color TFT, Dual Ethernet, Blank Bezel, Conformal Coated
IC755CSS12CDBCA	QuickPanel+, 12" Color TFT, Dual Ethernet, Standard Bezel, Conformal Coated
IC755CBS15CDACA	QuickPanel+, 15" Color TFT, Dual Ethernet, Blank Bezel, Conformal Coated
IC755CSS15CDACA	QuickPanel+, 15" Color TFT, Dual Ethernet, Standard Bezel, Conformal Coated

Communication interfaces QP+ 6" and 7" models:

Ethernet Port:	1x 10/100BaseT (RJ-45)
Serial port:	1x RS-232 UART port (5-pin connector)
USB, Host:	2x USB 2.0 (Type-A)
USB, Device:	1x USB 2.0 (Mini Type-B)

Communication interfaces QP+ 10", 12" and 15" models:

Ethernet Port:	2x 10/100BaseT (RJ-45)
Serial port:	1x RS-232 UART port (5-pin connector) 1x RS-232/485 port (5-pin connector)
USB, Host:	2x USB 2.0 (Type-A)
USB, Device:	1x USB 2.0 (Mini Type-B)

Input power rating: 24 VDC \pm 20%

Place of manufacture

Seedsware Corporation
3-7-16 Techno-stage, Izumi-shi, Osaka, 594-1144, Japan

Approval conditions

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 classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

7" QuickPanel+

The panel offers no isolation between Frame Ground (FG/PE) and Signal Ground (GND/0V). 24 VDC power needs to be supplied via a Safety Extra Low Voltage (SELV) and Limited Energy Circuit or SELV and Class II (double insulated) DC power supply. Ref. section "4.3 Initial Startup" of manual GFK-2847R.

12" QuickPanel+

To meet the class requirements for EMC/radiated emissions the USB-cable for permanent installation needs to be a shielded cable equipped with ferrite type Fair-Rite PN: 0443167251 or equivalent.

6", 10", 12" & 15" QuickPanel+

To meet the class requirements for EMC/conducted emissions, the power line needs to be equipped with a Corcom power line filter PN: 15DCB6F or equivalent.

Job Id: **262.1-019339-2**
Certificate No: **TAA00000EN**

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2015.

Marking of product

GE Intelligent Platforms

QuickPanel+

Item No as listed under Product description

Unique serial No

Rating: 24VDC, Amperage, Wattage

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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE