



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Siemens Industrial Automation Products Ltd., Chengdu
Address	No 99 Tianyuan Road Hi-tech West, District, Chengdu, 611731, China
Type	Operator Panel
Description	SIMATIC HMI / Panel system KP300 Basic, KTP400/600 Basic, KTP700, KTP900 KTP1200 Comprising the following modules: 6AV6 647, 6AV2 123
Trade Name	SIMATIC HMI
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – December 2021.
Specified Standard	Manufacturer's specification
Ratings	Power supply: 24V DC
Additional Tests	Low temperature (-25°C/16hrs)
Other Conditions	A filter is to be fitted in the power supply lines having the following rating I=3A, C=2x0.47µF, C=2x4700pF, L=4x4.7mH (except for MP 377-15" Daylight) or

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Nanjing West Road, Shanghai, Huangpu District,
200003, China

Ning Guan

Electrical & Control - Senior Specialist to
Lloyd's Register Classification Society (China)
Co Ltd

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equivalent.

TP 170 to be fitted with filter Corcom 3EQ1 or equivalent.

MP 370 only to be used with EMC Protection manufactured by Bartec.

(MP 370 Key 12": MP 370-12K 05-0042-0016,

MP 370 Touch 12": MP 370-12T 05-0042-0015,

MP 370 Touch 15": MP 370-15T 05-0042-0017).

KP300 Basic: In power supply line a choke is to be fitted and manufactured by Würth order No. 744821120.

Additional Ethernet connection is to be protected by Dehnpatch order No. 929 121 (tested) or equivalent.

KP8: In power supply line and signal line a choke is to be fitted and manufactured by Würth order No. 742 716 22 (tested) or equivalent.

KTP700/900 Mobile, SIMATIC KP1500 Comfort, SIMATIC TP1500 Comfort, SIMATIC TP1900 Comfort, SIMATIC TP2200 Comfort for bridge and deck application filter type B84113C is to be provided.

Surge Immunity: External Protective circuits required for DC systems. See the current System Manual (A5E03461486) for recommendations.

Installation of the units, as per manufacturer's instructions.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2209276TA

The Design Appraisal Document LR23362624TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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