

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Programmable Electronic System

with type designation(s)
Advantys STB

Issued to

**Schneider Automation SAS / Schneider Electric
CARROS, France**

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

Application :

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

Location classes:

Temperature	B
Humidity	A
Vibration	B
EMC	A
Enclosure	A / IP20

This Certificate is valid until **2020-06-30**.

Issued at **Høvik** on **2015-11-04**

for **DNV GL**

DNV GL local station: **Marseille**

Approval Engineer: **Ståle Sneen**

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 Advantys STB is an open, modular distributed I/O system. The system comprises the following components/modules:

Model no.	Description
STBDDI3230	24VDC IN 2PT SINK 4WIRE 0.2MS CFG SCP
STBDRC3210	RELAY OUT 2PT FORM C 2A 24V COIL
STBNIP2212	ETHERNET MB TCP/IP NIM STANDARD
STBPDT3100	24VDC PDM STANDARD
STBXBA1000	I/O BASE SIZE1
STBXBA2000	I/O BASE SIZE2
STBXBA2200	PDM BASE
STBXTS1100	6PT I/O SCREW CONN KIT QTY 20
STBXTS1110	5PT I/O SCREW CONN KIT QTY 20
STBXTS1120	2PT NIM SCREW CONN KIT QTY 10
STBXTS1130	2PT PDM SCREW CONN KIT QTY 10
STBACI1230	ANALOG C IN 2CH 0-20MA SGL-END 12 BIT
STBACO1210	ANALOG C OUT 2CH 0-20MA SGL-END 12 BIT
STBART0200	ANALOG IN 2CH RTD/TC/MV ISO 16 BIT
STBAVI1270	ANALOG V IN 2CH -/+10V SGL-END 12 BIT
STBAVO1250	ANALOG V OUT 2CH -/+10V SGL-END 12 BIT
STBDAO8210	115/230VAC OUT 2PT 2A
STBDDI3420	24VDC IN 4PT SINK 3WIRE 0.5MS CFG SCP
STBDDI3610	24VDC IN 6PT SINK 2WIRE 1MS FIXED SCP
STBDDO3200	24VDC OUT 2PT SOURCE 0.5A OCP
STBDDO3230	24VDC OUT 2PT SOURCE 2.0A OCP
STBDDO3410	24VDC OUT 4PT SOURCE 0.5A OCP
STBDDO3600	24VDC OUT 6PT SOURCE 0.5A OCP
STBDRA3290	RELAY OUT 2PT FORM A/B 7A 24V COIL
STBEHC3020	HIGH SPEED CNTR 1CH INC 40KHZ
STBEPI1145	TEGO POWER 16IN/8OUT I/F
STBEPI2145	TESYS TYPE U 12IN/8OUT PREWIRING I/F
STBNCO2212	CANOPEN NIM STANDARD
STBNDN2212	DEVICENET NIM STANDARD
STBNDP2212	PROFIBUS DP NIM STANDARD
STBNFP2212	FIP IO NIM STANDARD
STBNIB2212	INTERBUS NIM STANDARD
STBNMP2212	MODBUS PLUS NIM STANDARD
STBPDT2100	115/230VAC PDM STANDARD
STBXBA2300	BOS EXTENSION BASE
STBXBA2400	EOS EXTENSION BASE 18MM
STBXBA3000	I/O BASE SIZE3
STBXBE1000	EOS EXTENSION MODULE
STBXBE1200	BOS EXTENSION MODULE
STBXCA1004	10M ISLAND BUS BUS EXTENSION CABLE
STBXCA1001	0.3M ISLAND BUS BUS EXTENSION CABLE
STBXCA1002	1M ISLAND BUS BUS EXTENSION CABLE
STBXCA1006	14M ISLAND BUS BUS EXTENSION CABLE
STBXCA3002	1.0M TEGO POWER CABLE
STBXCA3003	2.0M TEGO POWER CABLE
STBXCA4002	RS232 CONFIG CABLE
STBXMP1100	TERMINATION PLATE - SPARE
STBXMP4440	MEMORY CARD 32K
STBXTS1111	5PT DEVICENET SCREW CONN
STBXTS2100	6PT I/O SPRING CONN KIT QTY 20

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Model no.	Description
STBXTS2110	5PT I/O SPRING CONN KIT QTY 20
STBXTS2111	5PT DEVICENET SPRING CONN
STBXTS2120	2PT NIM SPRING CONN KIT QTY 10
STBXTS2130	2PT PDM SPRING CONN KIT QTY 10
STBXCA1003	4.5M ISLAND BUS BUS EXTENSION CABLE

The modules in the following table were added to the certificate at renewal/extension 2011:

Model no.	Description
STBACI0320	ANALOG C IN 4CH 4-20MA 16 BIT
STBACI0320K	ANALOG C IN 4CH,4-20MA KIT CONNS,BASE
STBACI0320KC	ANALOG C IN 4CH, 4-20 MA KIT CLAMP, BASE
STBACI0320KS	ANALOG C IN 4CH, 4-20 MA KIT SCREW, BASE
STBACI1225	ANALOG C IN 2CH 4-20MA SGL-END 10BIT BSC
STBACI1225K	ANALOG C IN 2CHBASIC4-20AKIT CONNS,BASE
STBACI1225KC	ANALOG C IN 2CHBASIC4-20MAKIT CLAMP,BASE
STBACI1225KS	ANALOG C IN 2CHBASIC4-20MAKIT SCREW,BASE
STBACI1230K	ANALOG C IN 2CH 0-20MA KIT CONNS,BASE
STBACI1230KC	ANALOG C IN 2CH 0-20MA KIT CLAMP, BASE
STBACI1230KS	ANALOG C IN 2CH 0-20MA KIT SCREW, BASE
STBACI1400	ANALOG C IN 8 CH, 16 BIT SINGLE ENDED
STBACI1400K	ANALOG C IN 8CH KIT CONNS,BASE
STBACI1400KC	ANALOG C IN 8CH KIT CLAMP CONN BASE
STBACI1400KS	ANALOG C IN 8CH KIT SCREW CONN BASE
STBACI8320	ANALOG C IN 4CH HART 4-20MA 16 BIT
STBACI8320K	ANALOG C IN 4CH HART KIT CONNS,BASE
STBACI8320KC	ANALOG C IN 4CH HART KIT CLAMP,BASE
STBACI8320KS	ANALOG C IN 4CH HART KIT SCREW, BASE
STBACO0120	ANALOG C OUT 1 CH, 4-20MA 16 BIT
STBACO0120K	ANALOG C OUT 1CH KIT CONNS,BASE
STBACO0120KC	ANALOG C OUT 1CH KIT CLAMP CONN BASE
STBACO0120KS	ANALOG C OUT 1CH KIT SCREW CONN BASE
STBACO0220	ANALOG C OUT 2CH 4-20MA 16 BIT
STBACO0220K	ANALOG C OUT 2CH 16 BIT KIT CONNS, BASE
STBACO0220KC	ANALOG C OUT 2CH 16 BIT KIT CLAMP,BASE
STBACO0220KS	ANALOG C OUT 2CH 16 BIT KIT SCREW,BASE
STBACO1210K	ANALOG C OUT 2CH 0-20MA KIT CONNS,BASE
STBACO1210KC	ANALOG C OUT 2CH 0-20MA KIT CLAMP,BASE
STBACO1210KS	ANALOG C OUT 2CH 0-20MA KIT SCREW,BASE
STBACO1225	ANALOG C OUT 2CH 4-20MA SGL-END 10BT BSC
STBACO1225K	ANALOG C OUT 2CHBASIC4-20 KIT CONNS,BASE
STBACO1225KC	ANALOG C OUT 2CHBASIC4-20 KIT CLAMP,BASE
STBACO1225KS	ANALOG C OUT 2CHBASIC4-20 KIT SCREW,BASE
STBART0200K	ANALOG IN 2CH RTD/TC/MV KIT CONNS,BASE
STBART0200KC	ANALOG IN 2CH RTD/TC/MV KIT CLAMP, BASE
STBART0200KS	ANALOG IN 2CH RTD/TC/MV KIT SCREW, BASE
STBAVI0300	ANALOG V IN 4 CH, VOLT 16 BIT
STBAVI0300K	ANALOG V IN 4CH KIT CONNS,BASE
STBAVI0300KC	ANALOG V IN 4CH KIT CLAMP CONN BASE
STBAVI0300KS	ANALOG V IN 4CH KIT SCREW CONN BASE
STBAVI1255	ANALOG V IN 2CH 0-10V SGL-END 10BIT BSC
STBAVI1255K	ANALOG 0-10V IN 2CH BASE KIT CONNS,BASE
STBAVI1255KC	ANALOG 0-10V IN 2CH BASIC KIT CLAMP, BAS
STBAVI1255KS	ANALOG 0-10V IN 2CH BASIC KIT SCREW, BAS

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Model no.	Description
STBAVI1270K	ANALOG -/+10V IN 2CH KIT
STBAVI1270KC	ANALOG -/+10V IN 2CH KIT CLAMP CONN, BAS
STBAVI1270KS	ANALOG -/+10V IN 2CH KIT SCREW CONN, BAS
STBAVI1275	ANALOG V IN 2CH -/+10V SGL-END 10BIT BSC
STBAVI1275K	ANALOG-/+10V IN 2CH BASE KIT CONNS,BASE
STBAVI1275KC	ANALOG-/+10V IN 2CH BASIC KIT CLAMP, BAS
STBAVI1275KS	ANALOG-/+10V IN 2CH BASIC KIT SCREW, BAS
STBAVI1400	ANALOG V IN 8CH, 16 BIT SINGLE ENDED
STBAVI1400K	ANALOG V IN 8CH KIT CONNS,BASE
STBAVI1400KC	ANALOG V IN 8CH KIT CLAMP CONN BASE
STBAVI1400KS	ANALOG V IN 8CH KIT SCREW CONN BASE
STBAVO0200	ANALOG V OUT 2 CH, VOLT 16 BIT
STBAVO0200K	ANALOG V OUT 2CH KIT CONNS,BASE
STBAVO0200KC	ANALOG V OUT 2CH KIT CLAMP CONN,BASE
STBAVO0200KS	ANALOG V OUT 2CH KIT SCREW CONN,BASE
STBAVO1250	ANALOG-/+10V OUT 2CH KIT CONNS,BASE
STBAVO1250K	ANALOG-/+10V OUT 2CH KIT CONNS,BASE
STBAVO1250KC	ANALOG -/+10V OUT 2CH KIT CLAMP, BASE
STBAVO1250KS	ANALOG -/+10V OUT 2CH KIT SCREW, BASE
STBAVO1255	ANALOG V OUT 2CH 0-10V SGL-END 10BIT BSC
STBAVO1255K	ANALOG 0-10V OUT 2CHBASIC KIT CONNS,BASE
STBAVO1255KC	ANALOG 0-10V OUT 2CHBASIC KIT CLAMP,BASE
STBAVO1255KS	ANALOG 0-10V OUT 2CHBASIC KIT SCREW,BASE
STBAVO1265	ANALOG V OUT 2CH -/+10V SGL-END 10BT BSC
STBAVO1265K	ANALOG-/+10V OUT 2CHBASIC KIT CONNS,BASE
STBAVO1265KC	ANALOG-/+10V OUT 2CHBASIC KIT CLAMP,BASE
STBAVO1265KS	ANALOG-/+10V OUT 2CHBASIC KIT SCREW,BASE
STBCPS2111	AUXILARY POWER SUPPLY
STBCPS2111K	AUX POWER SUPPLY KIT CONN,BASE
STBCPS2111KC	AUX POWER SUPPLY KIT CLAMP,BASE
STBCPS2111KS	AUX POWER SUPPLY KIT SCREW,BASE
STBD AI5230	115VAC IN 2PT 3WIRE FIXED
STBD AI5230K	115VAC IN 2PT KIT CONNS,
STBD AI5230KC	115VAC IN 2PT KIT CLAMP CONN, BASE
STBD AI5230KS	115VAC IN 2PT KIT SCREW CONN, BASE
STBD AI5260	115VAC IN 2PT ISOLATED FIXED
STBD AI5260K	115VAC IN 2PT ISOLATED KIT CONNS,BASE
STBD AI5260KC	115VAC IN 2PT ISOLATED KIT CLAMP,BASE
STBD AI5260KS	115VAC IN 2PT ISOLATED KIT SCREW,BASE
STBD AI7220	230VAC IN 2PT 3WIRE FIXED
STBD AI7220K	230VAC IN 2PT KIT CONNS,
STBD AI7220KC	230VAC IN 2PT KIT CLAMP CONN,BASE
STBD AI7220KS	230VAC IN 2PT KIT SCREW CONN,BASE
STBD AO5260	115VAC OUT 2PT 2A ISOLATED
STBD AO5260K	115VAC OUT 2PT ISOLATED KIT CONNS,BASE
STBD AO5260KC	115VAC OUT 2PT ISOLATED KIT CLAMP,BASE
STBD AO5260KS	115VAC OUT 2PT ISOLATED KIT SCREW,BASE
STBD AO8210K	115/230VAC OUT 2PT KIT
STBD AO8210KC	115/230VAC OUT 2PT KIT CLAMP CONN,BASE
STBD AO8210KS	115/230VAC OUT 2PT KIT SCREW CONN,BASE
STBDDI3230K	24VDC IN 2PT KIT CONNS,
STBDDI3230KC	24VDC IN 2PT KIT CLAMP CONN, BASE
STBDDI3230KS	24VDC IN 2PT KIT SCREW CONN, BASE
STBDDI3420K	24VCD IN 4PT KIT CONNS, BASE

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Model no.	Description
STBDDI3420KC	24VDC IN 4PT KIT CLAMP CONN, BASE
STBDDI3420KS	24VDC IN 4PT KIT SCREW CONN, BASE
STBDDI3425	24VDC IN 4PT SINK 3WIRE BASIC
STBDDI3425K	24VDC IN 4PT BASIC KIT CONNS,BASE
STBDDI3425KC	24VDC IN 4PT BASIC KIT CLAMP CONN,BASE
STBDDI3425KS	24VDC IN 4PT BASIC KIT SCREW CONN,BASE
STBDDI3610K	24VDC IN 6PT KIT CONNS,BASE
STBDDI3610KC	24VDC IN 6PT KIT CLAMP CONN, BASE
STBDDI3610KS	24VDC IN 6PT KIT SCREW CONN, BASE
STBDDI3615	24VDC IN 6PT SINK 2WIRE BASIC
STBDDI3615K	24VDC IN 6PT BASIC KIT CONNS,BASE
STBDDI3615KC	24VDC IN 6PT BASIC KIT CLAMP CONN,BASE
STBDDI3615KS	24VDC IN 6PT BASIC KIT SCREW CONN,BASE
STBDDI3725	24VDC IN 16PT SINK BASIC 2 WIRE
STBDDI3725KC	24VDC IN 16PT BASIC KIT CLAMP,BASE
STBDDI3725KS	24VDC IN 16PT BASIC KIT SCREW,BASE
STBDDO3200K	24VDC OUT 2PT 0.5A KIT
STBDDO3200KC	24VDC OUT 2PT 0.5A KIT CLAMP CONN,BASE
STBDDO3200KS	24VDC OUT 2PT 0.5A KIT SCREW CONN,BASE
STBDDO3230K	24VDC OUT 2PT 2.0A KIT
STBDDO3230KC	24VDC OUT 2PT 2.0A KIT CLAMP CONN,BASE
STBDDO3230KS	24VDC OUT 2PT 2.0A KIT SCREW CONN,BASE
STBDDO3410K	24VDC OUT 4PT KIT CONNS,
STBDDO3410KC	24VDC OUT 4PT KIT CLAMP CONN,BASE
STBDDO3410KS	24VDC OUT 4PT KIT SCREW CONN,BASE
STBDDO3415	24VDC OUT 4PT SOURCE .25A BASIC
STBDDO3415K	24VDC OUT 4PT BASIC KIT
STBDDO3415KC	24VDC OUT 4PT BASIC KIT CLAMP CONN,BASE
STBDDO3415KS	24VDC OUT 4PT BASIC KIT SCREW CONN,BASE
STBDDO3600K	24VDC OUT 6PT KIT CONNS,BASE
STBDDO3600KC	24VDC OUT 6PT KIT CLAMP, BASE
STBDDO3600KS	24VDC OUT 6PT KIT SCREW, BASE
STBDDO3605	24VDC OUT 6PT SOURCE .25A BASIC
STBDDO3605K	24VDC OUT 6PT BASIC KIT CONNS,BASE
STBDDO3605KC	24VDC OUT 6PT BASIC KIT CLAMP, BASE
STBDDO3605KS	24VDC OUT 6PT BASIC KIT SCREW, BASE
STBDDO3705	24VDC OUT 16PT SOURCE BASIC 0.5A
STBDDO3705KC	24VDC OUT 16PT BASIC KIT CLAMP,BASE
STBDDO3705KS	24VDC OUT 16PT BASIC KIT SCREW,BASE
STBDRA3290K	RELAY OUT 2PT 7A 24V KIT CONNS,BASE
STBDRA3290KC	RELAY OUT 2PT 7A 24V KIT CLAMP CONN,BASE
STBDRA3290KS	RELAY OUT 2PT 7A 24V KIT SCREW CONN,BASE
STBDRC3210K	RELAY OUT 2PT 2A 24V KIT CONNS,BASE
STBDRC3210KC	RELAY OUT 2PT 2A 24V KIT CLAMP CONN,BASE
STBDRC3210KS	RELAY OUT 2PT 2A 24V KIT SCREW CONN,BASE
STBEHC3020KC	HIGH SPEED CNTR 1CH 40KHZ KIT CLAMP,BASE
STBEPI1145k	TEGO POWER 16IN/8OUT I/F KIT WITH BASE
STBEPI2145K	TESYS TYPE U 12IN/8OUT KIT WITH BASE
STBNCO1010	CANOPEN NIM BASIC
STBNCO1113	CANOPEN NIM ECONOMY
STBNNDN1010	DEVICENET NIM BASIC
STBNNDP1010	PROFIBUS DP NIM BASIC
STBNIB1010	INTERBUS NIM BASIC
STBNIC2212	ETHERNET/IP NIM STANDARD

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Model no.	Description
STBNIP2311	DUAL-PORT ETHERNET MB/TCP NIM STANDARD
STBPDT2100K	115/230VAC PDM STANDARD KIT CONNS,BASE
STBPDT2100KC	115/230VAC PDM STANDARD KIT CLAMP,BASE
STBPDT2100KS	115/230VAC PDM STANDARD KIT SCREW,BASE
STBPDT2105	115/230VAC PDM BASIC
STBPDT2105K	115/230VAC PDM BASIC KIT CONNS,BASE
STBPDT2105KC	115/230VAC PDM BASIC KIT CLAMP CONN,BASE
STBPDT2105KS	115/230VAC PDM BASIC KIT SCREW CONN,BASE
STBPDT3100K	24VDC PDM STANDARD KIT CONNS,BASE
STBPDT3100KC	24VDC PDM STANDARD KIT CLAMP CONN,BASE
STBPDT3100KS	24VDC PDM STANDARD KIT SCREW CONN,BASE
STBPDT3105	24VDC PDM BASIC
STBPDT3105K	24VDC PDM BASIC CONNS,BASE
STBPDT3105KC	24VDC PDM BASIC KIT CLAMP CONN,BASE
STBPDT3105KS	24VDC PDM BASIC KIT SCREW CONN,BASE
STBXBA2100	AUXP/S BASE 18MM
STXB1100	EOS EXTENSION MODULE
STXB1100K	EOS MODULE PREF DEVICES KIT CONNS,BASE
STXB1100KC	EOS MODULE PREF DEVICES KIT CLAMP,BASE
STXB1100KS	EOS MODULE PREF DEVICES KIT SCREW,BASE
STXB1300	BOS EXTENSION MODULE
STXB1300K	BOS MODULE PREF DEVICES KIT CONNS,BASE
STXB1300KC	BOS MODULE PREF DEVICES KIT CLAMP,BASE
STXB1300KS	BOS MODULE PREF DEVICES KIT SCREW,BASE
STXB2100	CANOPEN EXTENSION MODULE
STXB2100K	CANOPEN EXTENSION MODULE KIT CONNS,BASE
STXB2100KC	CANOPEN EXTENSION MODULE KIT CLAMP, BASE
STXB2100KS	CANOPEN EXTENSION MODULE KIT SCREW,BASE
STBXMP5600	QTY10 EA PDM FUSE 5A/10A
STBXMP5690	PWR DIST MDL FUSE BYPASS KT QTY10
STBXMP6700	QTY25 MARKING LABEL SHEET
STBXMP7700	QTY60 MODULE KEYPIN WHEEL KIT
STBXMP7800	QTY96 I/O CONN KEY WHEEL KIT
STBXMP7810	QTY24 PDM BEZEL KEY WHEEL KIT
STBXSP3000	SHD KIT BRACKETS AND BAR
STBXSP3010	QTY10 SHD KIT SIZE 1 WIRE CLAMP
STBXSP3020	QTY10 SHD KIT SIZE 2 WIRE CLAMP
STBXTS1180	18 PT I/O SCREW CONN KIT QTY 2
STBXTS2150	HSC MOD SPRING CONN KIT
STBXTS2180	18 PT I/O SPRING CONN KIT QTY 2
STBXTS5510	TELEFAST INPUT CONN FOR TWIDO SUB BASE
STBXTS5610	TELEFAST OUTPUT CONN FOR TWIDO SUB BASE
STBXTS6510	TELEFAST2 INPUT CONN
STBXTS6610	TELEFAST2 OUTPUT CONN
STBXTT0220	SCREWDRIVER SLOTTED 2.5MM
499TWD01100	CONNEXIUM ETHERNET INTERFACE FOR TWIDO

Place of manufacture

PT Schneider Electric MFG Batam (SEMB),
Batamindo Industrial Park, Block 4 & 208 Mukakuning,
Batam Riau, 29433 Indonesia

Schneider Automation SAS, ZI Carros, 8ème Rue, F-06516 Carros

Application/Limitation

This Type Approval Certificate covers hardware only, as listed under Product Description.

The following documentation of the actual application is to be submitted for approval in each case:

- A copy of, or reference to this TA-Certificate
- System block diagram (covering overall- and detailed information)
- Power supply arrangement (may be a part of the system block diagram)
- List of control and monitored points
- Test program for certification
- Functional description
- User interface description
- Documented compliance to DNV GL's environmental requirements for delivered components that are not included in this type approval
- Documents according to Pt.4 Ch.8 Sec.11 to be submitted for installations in hazardous areas

Dependant of the application, additional documents may be required.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Special precautions should be taken to avoid condensation in the areas where humidity class A modules are installed.

24V DC mains shall be filtered by Würth ferrite PN: 742 725 33, or equivalent, to satisfy the conducted emission requirements.

All units shall be mounted inside a standard metallic enclosure, as specified by the manufacturer, to satisfy the radiated emission requirements.

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV GL for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

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Tests carried out

Applicable test according to DNV Standard for Certification No.2.4, April 2006.

Marking of product

Brand Label "Telemecanique" and/or "Schneider-Electric"
Series Identifier "Advantys"
Part Number
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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE