



NIPPON KAIJI KYOKAI

**TYPE APPROVAL CERTIFICATE
FOR AUTOMATIC DEVICES AND EQUIPMENT**

Certificate No. TA17086M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

This certificate is issued to

Applicant & Place of Applicant:	Fuji Electric France S. A. S. 46, rue Georges Besse – Z.I. du Brezet 63039 Clermont-Ferrand Codex 2, France
	Fuji Electric Co., Ltd. No.1, Fuji-machi, Hino-city, 191-8502 Tokyo, Japan
Manufacturer & Place of Manufacturing:	TECNOVA HT s.r.l. Via castellazzo 29, 20010 Pregnana Milanese (MI), Italy
Product description:	Emission Monitoring System
Model:	S-Keeper 7
Approval No.:	17A003
Valid until:	1 March 2022

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 2 March 2017.



Y. Shibata
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: 230V 50Hz

2. Product description and reference drawings:

Product	Version	System components	Reference drawings
S-KEEPER 7	S-KEEPER 7 EASY-N	Analyzer Cabinet	MOD05.04.1R002
	S-KEEPER 7 EASY-S	Sample Probe (SK7_HP_1)	THT-SK-00001-EL-1 R1
	S-KEEPER 7 EASY		THT-SK-00001-LY-1 R1
	S-KEEPER 7 LITE-N		
	S-KEEPER 7 LITE-S		
	S-KEEPER 7 LITE		
	S-KEEPER 7 FULL		

3. Test Reports:

- TesLab 145094F (2014.08.29)
- TesLab 153050F (2015.05.06)
- TesLab 154069F (2015.05.06)
- Tecnova HT S.r.l. verification, in accordance with ISO 8178-1:2006 (May 2015 – rev.03)
- RT-AB-063/15, rev.00 (2015/07/31)
- 0017/ME/CMP/15 (2015/09/16)
- 0076/ME/CMP/15 (2015/10/23)
- MOD 08-31-02 (Oct. 2016)

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 55°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration $\pm 0.7g \times 1.5$ hours)		X
Inclination test		--
Cold test (Temperature 5°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed in the bridge and on open decks.