


Type Approval Certificate Extension

This is to certify that Certificate No. 97/10013(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Yamatake Corporation Tokyo Building 19F, 2-7-3 Marunouchi, Ciyoda-ku, Tokyo, 100-6419 Japan
PLACE OF PRODUCTION	Yamatake Corporation, Shonan Factory 4-1-1, Omagari, Samukawa-cho, Koza-gun, Kanagawa, 253-0113 Japan
DESCRIPTION	Electronic Pressure Transmitter ST3000 Ace Smart Transmitter
TYPE	Differential Pressure Transmitter Models: JTD910A, JTD920A, JTD930A, JTD921A, JTD931A Pressure Transmitter Models: JTG940A, JTG960A, JTG980A Absolute Pressure Transmitter Models: JTA922A, JTA940A
APPLICATION	Marine, offshore and industrial applications suitable for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval System, Test Specification No. 1-2002.
ADDITIONAL TEST	Dry heat test at 85°C Low temperature test at -40°C
Certificate No.	97/10013(E3)
Issue Date	09 July 2007
Expiry Date	08 July 2012
Sheet	1 of 2



H. Murase
Yokohama Design Support Office
Lloyd's Register Asia

Lloyd's Register Asia, registered office:
71 Fenchurch Street, London EC3M 4BS

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DESIGN CODE

JIS F9704-84 Marine electronic pressure transmitter

Manufacturer's Specifications

No. SS2-DST100-0100 (Rev.7)

SS2-DST400-0100 (Rev.3)


SS2-DST500-0100 (Rev.3)

"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 Asia of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 97/10013(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 97/10013(E2) to which this extension should be attached.

Certificate No.	97/10013(E3)
Issue Date	09 July 2007
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Sheet	2 of 2



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Marine Design Appraisal Document

Lloyd's Register Asia
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Yokohama, 220-6010 Japan
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Date
09 July 2007

Quote this reference on all future communications
YDS/T/HMU/77708(E02-41)

THE LR TYPE APPROVAL SYSTEM, 2002.

Issued to: : YAMATAKE CORPORATION
for: ELECTRONIC PRESSURE TRANSMITTER
'ST3000 ACE SMART TRANSMITTER'
TYPE APPROVAL CERTIFICATE No. 97/10013(E3)

The undernoted documents have been reviewed for compliance with the requirements of the LR Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request for Marine Services
Approval Services - Request for Quotation

Dated 05 June 2007
Dated 05 June 2007

TEST REPORTS

Test Report for Renewal of Type Approval Application

Dated 02 August 2007

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register Asia reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 3
Transmitters/Transducers

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
Yamatake Corporation Tokyo Building 19F, 2-7-3 Marunouchi, Chiyoda-ku, Tokyo, 100-6419 Japan	Electronic pressure transmitter 'ST3000 Ace Smart Transmitter' Differential pressure Model JTD 910A JTD 920A JTD 930A JTD 921A JTD 931A Gauge pressure Model JTG 940A JTG 960A JTG 980A Absolute pressure Model JTA 922A JTA 940A	Power supply : 24V d.c. Output : 4 - 20mA d.c. Range: JTD 910A 0.1 - 2.0 kPa JTD 920A 0.75 - 100 kPa JTD 930A 35 - 700 kPa JTD 921A 2.5 - 100 kPa JTD 931A 35 - 700 kPa JTG 940A 35 - 3500 kPa JTG 960A 0.7 - 14 MPa JTG 980A 0.7 - 42 MPa JTA 922A 4 - 104 kPa JTA 940A 35 - 3500 kPa	ENV1 ENV2 ENV3 (2002) Dry heat test at 85°C Low temperature test at -40°C	Expires: 08 July 2012 Manufacturer's Specifications Nos. SS2-DST100-0100 (Rev.7) SS2-DST400-0100 (Rev.3) SS2-DST500-0100 (Rev.3)	97/10013(E2)

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JUL. 9. 2007