



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 18/AUG/2014. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 28/MAR/2017 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Programmable Logic Controller
Model Name(s): FC4A and FC5A Series

Presented to:
IDEC CORPORATION
TSUKUBA PLANT, 1-9 KOYODAI
RYUGASAKI
Japan

Intended Service:	Installed on ACC, ACCU or ABCU
Description:	See Attached Sheet.
Ratings:	See Attached Sheet.
Service Restrictions:	Unit Certification is not required for IDEC CORPORATION as the original supplier. However, unit certification in accordance with 4-9-6/Table 2 is required by the user to customize this equipment where this equipment is used for Category II services in 4-9-6/Table 1. The performance tests are to be carried out preferably at the assembled plant before installation onboard. If this is impracticable, the performance tests may be carried out after installation onboard. This PLC is prohibited to be used for Category III services in 4-9-6/Table 1.
Comments:	(1) This equipment has been reviewed as Category II services in 4-9-6/Table 1 and 4-9-6/Table 2 as applicable. (2) The requirement evidence to be kept by the manufacturer in accordance with 4-9-6/Table 2.
Notes / Documentation:	(1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. (2) This PDA is based on the following documents: (a) Test report countersigned by ABS Surveyor dated 18 July 2007 & 19 August 2008. (b) Surveyor Report KO847388 dated 29 June 2007 & KO1036349 dated 19 August 2008.
Term of Validity:	This Product Design Assessment (PDA) Certificate 07-YO231764-2-PDA, dated

28/Mar/2012 remains valid until 28/Mar/2017 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules:

2012 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3, 4-9-6 (Category II) and 4-9-7

National Standards:

International Standards:

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	07-YO231764-2-PDA	28/MAR/2012	28/MAR/2017



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.