



CERTIFICATE NUMBER  
18-HS1761405-PDA

DATE  
13 Aug 2018

ABS TECHNICAL OFFICE  
Houston ESD - Piping

---

CERTIFICATE OF  
**Design Assessment**

This is to certify that a representative of this Bureau did, at the request of

**AUTOMATIONDIRECT**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Automation and Controls System**

Model: **P3000**


This Product Design Assessment (PDA) Certificate 18-HS1761405-PDA, dated 13/Aug/2018 remains valid until 12/Aug/2023 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.

AMERICAN BUREAU OF SHIPPING

  
\_\_\_\_\_  
Tim Kimble  
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Codes, standards or other international ABS or industry standards. It is issued solely for the use of ABS or its authorized agents or other authorized parties. Any significant changes to the assessment and product without approval from ABS will void this certificate becoming null and void. This certificate is governed by the terms and conditions as outlined in ABS Rules 1-1-A-1/1.10 Terms and Conditions of the Request for Product Type Approval and Agreement 12/10.

ABS2740147

**AUTOMATIONDIRECT**  
3505 HUTCHINSON ROAD  
CUMMING GA

United States 30040

Telephone: 770-889-2858

Fax: 770-889-7876

Email: jpayne@automationdirect.com

Web: www.automationdirect.com

**Tier: 5 - Unit Certification Required**

---

**Product:** Automation and Controls System

**Model:** P3000

**Intended Service:**

Marine & Offshore Application - Programmable Logic Controllers for Shipboard Automation and Control Systems for ACC and ACCU Classed Vessels and Offshore and Industrial Controls.

**Description:**

Productivity 3000 Programmable Controllers consist of Power Supply, CPU, Discrete DC I/O, Discrete AC I/O, Analog I/O, Motion Speed Counter Input, Ziplink Modules. See attached "pdf" for equipment list and part numbers.

**Rating:**

Power Supply P3-01DC: 24 to 48 VDC;

Maximum Input Power : 67 W;

Operating Temperature: 0°C to 60°C (32°F to 140°F);

Power Supply P3-01AC: 100 to 240 VAC; 50 to 60 Hz;

Maximum Input Power : 72W;

Operating Temperature: 0°C to 60°C (32°F to 140°F);

Locations: Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.

**Service Restriction:**

- 1) Unit Certification is required for this product.
- 2) Tests and approval are for hardware only. Each particular application/configuration is to be specifically approved.
- 3) When product is marked for use in hazardous location, certificate/document is to be submitted to ABS upon request.

**Comments:**

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

ABS PO-R93122-P3 recert, Purchase Order R93122;

UL Certificate 20170821-E139594; Issued 8/21/2017;

UL Certificate 20170821-E157382; Issued 8/21/2017;

UL Certificate 20180221-E200031; Issued 2/21/2018;

UL Certificate 20171215-E495364; Issued 5/12/2017;

CE Declaration of Conformity dated 24 July 2009;

CE EC Declaration of Conformity dated 11/28/2011;

Parc Test Report No. 5208 dated 20 January 2014, 18 sheets;

ETC Electronic Test and Calibration LTD dated 5 Dec 2013, 20 sheets;

Bae Systems Certificate Number 14027 dated 3 February 2014, 5 sheets;

Bae Systems Certificate Number 14006 dated January 13, 2014, 8 sheets;

Electronic Test & Calibration Ltd. Electromagnetic Compatibility Testing dated 16 January 2014;

P3000 Report Set;

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 18-HS1761405-PDA, dated 13/Aug/2018 remains valid until 12/Aug/2023 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.

**AUTOMATIONDIRECT**  
3505 HUTCHINSON ROAD  
CUMMING GA  
United States 30040  
Telephone: 770-889-2858  
Fax: 770-889-7876  
Email: jpayne@automationdirect.com  
Web: www.automationdirect.com

**Tier: 5 - Unit Certification Required**

---

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.

**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2018 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2018 Steel Vessels: 4-9-8/7, 4-9-8/13.1, 4-9-8/Table 1, 4-8-3/13.1;

Rules for Conditions of Classification, Part 1 - 2018 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2018 Mobile Offshore Drilling Units: 4-3-3/9.12(c), 6-1-1/9, 6-1-1/13

**National:**

UL Certificate 20170821-E139594 (Issued 8/21/2017);

UL Certificate 20170821-E157382 ( Issued 8/21/2017);

UL Certificate 20180221-E200031 (Issued 2/21/2018);

UL Certificate 20171215-E495364 (Issued 5/12/2017)

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA