

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0083X
3. **Equipment:** ProSafe-RS Safety Instrumented System  
(Type Reference and Name)
4. **Name of Listing Company:** Yokogawa Electric Corporation
5. **Address of Listing Company:** 2-9-32 Nakacho Musashino-shi  
Tokyo  
Japan
6. The examination and test results are recorded in confidential report number:  
  
3025868 dated 6<sup>th</sup> March 2006
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**  
  
Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; T4 Hazardous (Classified) Indoor Locations; Provides Nonincendive Field Wiring Connections for Class I, Division 2, Groups A, B, C, and D, temperature code T4 for temperature range per section 12; Hazardous (Classified) Indoor Locations.

**Certificate issued by:**

J. E. Marquedant  
Manager, Electrical Systems

13 November 2016

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D; T4; Ta per section 12.

(Note: Ta is not listed in the marking, which includes the symbol "X". The ambient temperature ranges are listed in drawing #NFM014-A13 P.4-2 and P.4-3.

12. **Description of Equipment:**

**General** - The ProSafe-RS Safety Instrumented System consists of the Safety Control System (SCS), the Safety Engineering PC (SENG) and the realtime control bus called Vnet or Vnet/IP which connects the SCS and the SENG.

**Construction** - The ProSafe-RS Safety Instrumented System is contained within a metal enclosure designed for rack mounting. Some units, depending on configuration are fan-cooled. Most wiring is within the enclosure, or through conduit, however some configurations require Nonincendive field wiring.

**Ratings** - The ProSafe-RS Safety Instrumented System operates at:  
100-120VAC, 50/60Hz, 200VA, 220-240VAC, 50/60Hz, 230VA or 24VDC, 5.5A for Basic type of Safety Control Unit, Safety Node Unit and Unit for Optical Bus Repeater Module.  
100-120VAC, 50/60Hz, 240VA, 220-240VAC, 50/60Hz, 290VA or 24VDC, 7.0A with temperature-adaptive fan of Safety Control Unit.  
100-120VAC, 50/60Hz, 80VA, 220-240VAC, 50/60Hz, 110VA or 24VDC, 2.0A for Optical Bus Repeater.

The ProSafe-RS Safety Instrumented System are rated for use in an ambient temperature range of:

Component	Ambient Temperature
Safety Control Unit	
Basic Type	-20°C to 40°C or -20°C to 50°C
With Temperature-adaptive fan	-20°C to 70°C
High-density installation type	-20°C to 70°C
With Temperature option	0°C to 70°C
Safety Node Unit	
Basic Type	-20°C to 70°C
High-density installation type	-20°C to 70°C
With Temperature option	0°C to 70°C
Unit for Optical Bus Repeater Module	-20°C to 70°C
Optical Bus Repeater	0°C to 70°C

## ProSafe-RS Safety Instrumented System

### SSC10S-a2db1c Safety Control Unit

**NI / I / 2 / ABCD / T4 Ta = 50°C(when a = S) or 70°C(when a = F).**

a = Type S (Standard) or F (Wide range temperature -20°C to 70°C).

d = 1 or E.

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

c = /GPS, /ATDOC, /SP1 or blank.

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## **SSC10D-a2db1c Duplexed Safety Control Unit**

**NI / I / 2 / ABCD / T4 Ta = 50°C(when a = S) or 70°C(when a = F).**

a = Type S (Standard) or F (Wide range temperature -20°C to 70°C).

d = 1 or E.

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

c = /GPS, /ATDOC, /SP1 or blank.

## **SSC50S-a2dbec Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).

d = 1 (With previous explosion protection) or E (With explosion protection).

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

e = 1 (CFS1100 Safety Control Function License), 2 (Without Safety Control Function License),

3 (CFS1100 Safety Control Function License (for R3.02.31 or later)) or 4 (Without Safety Control Function License (for R4.01.31 or later)).

c = /ATDOC, /SP1, /ERFI or blank.

## **SSC50D-a2dbec Duplexed Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).

d = 1 (With previous explosion protection) or E (With explosion protection).

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

e = 1 (CFS1100 Safety Control Function License), 2 (Without Safety Control Function License), 3

(CFS1100 Safety Control Function License (for R3.02.31 or later)) or 4 (Without Safety Control Function License (for R4.01.31 or later)).

c = /ATDOC, /SP1, /ERFI or blank.

## **SSC57S-a2Ebdc Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

d = 1 (CFS1170 Safety Control Function License), 2 (Without Safety Control Function License), 3

(CFS1170 Safety Control Function License (for R3.02.31 or later)) or 4 (Without Safety Control Function License (for R4.01.31 or later)).

c = /ATDOC or blank.

## **SSC57D-a2Ebdc Duplexed Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).

b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

d = 1 (CFS1170 Safety Control Function License), 2 (Without Safety Control Function License), 3

(CFS1170 Safety Control Function License (for R3.02.31 or later)) or 4 (Without Safety Control Function License (for R4.01.31 or later)).

c = /ATDOC or blank.

## **SSC60S-a2dbec Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).

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d = 1 (With previous explosion protection) or E (With explosion protection).  
b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).  
e = 1 (CFS1100 Safety Control Function License) or 2 (Without Safety Control Function License)  
c = /ATDOC, /SP1, /ERFI or blank.

### **SSC60D-a2dbec Duplexed Safety Control Unit for Vnet/IP**

**NI / I / 2 / ABCD / T4 Ta = 40°C(when a = S) or 70°C(when a = F).**

a = Type, S (Standard) or F (Wide range temperature -20°C to 70°C).  
d = 1 (With previous explosion protection) or E (With explosion protection).  
b = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).  
e = 1 (CFS1100 Safety Control Function License) or 2 (Without Safety Control Function License)  
c = /ATDOC, /SP1, /ERFI or blank.

### **SNB10D-dacb Safety Node Unit**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

d = 2 (Dual-redundant power supply with software license for node expansion) or 4 (Dual-redundant power supply)  
a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).  
c = 3 or E.  
b = /CU2N, /CU2T, /ATDOC, /SP1 or blank

### **SNT10D-2acb Unit for Optical Bus Repeater Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).  
c = 3 or E.  
b = /ATDOC, /SP1 or blank.

### **SCP401-b1 Processor Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.

### **SCP451- bca Processor Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.  
c = 1 or 3.  
a = /ERFI or blank

### **SCP461- b1a Processor Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.  
a = /ERFI or blank

### **SPW481-b3a Power Supply Module, 100 – 120 Vac**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.  
a = /ERFI or blank

### **SPW482- b3a Power Supply Module, 220 – 240 Vac**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

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b = 1 or E.  
a = /ERFI or blank

**SPW484- b3a Power Supply Module, 24 Vdc**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.  
a = /ERFI or blank

**AIP504-b3 Vnet Coupler Unit**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.

**SEC401-b1a ESB Bus Coupler Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.  
a = /SP1 or blank.

**SEC402-b1a ESB Bus Coupler Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 2 or E.  
a = /SP1 or blank.

**SSB401-b3 ESB Bus Interface Slave Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or E.

**SNT401-abc Optical ESB Bus Repeater Master Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = 1 or E.  
b = 3 or F.  
c = /CU1N, /CU1T, /SP1, /ERFI or blank.

**SNT501-abc Optical ESB Bus Repeater Slave Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = 1 or E.  
b = 3 or F.  
c = /SP1 or blank.

**SNT411-abc Optical ESB Bus Repeater Master Module 5 km to 50 km**

**NI / I / 2 / ABCD / T4, Ta = 70°C**

a = 1 or E.  
b = 3 or F.  
c = /CU1N, /CU1T, /SP1 or blank.

**SNT511-abc Optical ESB Bus Repeater Slave Module 5 km to 50 km**

**NI / I / 2 / ABCD / T4, Ta = 70°C**

a = 1 or E.  
b = 3 or F.

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c = /SP1 or blank.

**SNT421-E3a Optical ESB Bus Repeater Master Module MMF 4 km**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = /CU1N, /CU1T or blank.

**SNT521-E3 Optical ESB Bus Repeater Slave Module MMF 4 km**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

**SAT145-Sb3c TC/mV Input Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 3 or F.

c = /PRP or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
RJC input	Redundant	1.5	1.0	0.01	0.14
	Single	1.5	1.0	0.01	0.14
TC/mv input	Redundant	6.0	3.0	0.45	3.74
	Single	6.0	3.0	0.45	3.74
Detection Cable	Redundant	6.0	20.0	0.01	0.14
	Single	6.0	20.0	0.01	0.14

Equipment receiving energy	Model	Vmax (V)	I <sub>max</sub> (mA)	Ci (μF)	Li (μH)
TC/mv input	Redundant	5.0	1.53	0.6	10
	Single	5.0	1.53	0.6	10

**SAR145-Sb3c RTD Input Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 3 or F.

c = /PRP or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
RTD Input	Redundant	6.0	50.0	0.20	1.32
	Single	6.0	50.0	0.20	1.32
Detection Cable	Redundant	6.0	70.0	0.01	0.14
	Single	6.0	70.0	0.01	0.14

**SAI143-abdc Analog Input Module**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

a = Type S (Standard) or H (With Hart communication).

b = 0, 3, E, or F.

d = 3 or C.

c = /K4A00, /A4S00, /A4S10, /A4D00, /A4D10, /PRP, /CCC01, /SP1 or blank.

Nonincendive Field Wiring Parameters:

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Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
2-wire Transmitter Input	Redundant	26.4	26	0.13	10
	Single	26.4	26	0.13	10
Detection Cable	Redundant	12.2	0.14	0.01	1
	Single	12.2	0.07	0.01	1

Equipment receiving energy	Model	Vmax (V)	I <sub>max</sub> (mA)	Ci (μF)	Li (μH)
4-wire Transmitter Input	Redundant	26.4	26	0.008	20
	Single	26.4	26	0.004	20

### SAV144-Sb3c Analog Input Module

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 0, 3, E or F.

c = /K4A00, /A4S00, /A4S10, /A4D00, /A4D10, /PRP, /CCC01, /SP1 or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Detection Cable	Redundant	10	1.2	0.01	1
	Single	10	0.6	0.01	1

Equipment receiving energy	Model	Vmax (V)	I <sub>max</sub> (mA)	Ci (μF)	Li (μH)
Input	Redundant	30	0.6	0.001	10
	Single	30	0.3	0.001	10

### SAI533-Hb3c Analog Output Module

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 0, 3, E or F.

c = /A4S00, /A4S10, /A4D00, /A4D10, /PRP, /CCC01, /SP1 or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Output	Redundant	18.9	23	0.16	10
	Single	18.9	23	0.16	10
Detection Cable	Redundant	10	220	0.01	1
	Single	10	110	0.01	1

### SDV144-Sbdc Digital Input Module

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 1, 3, E or F.

d = 3 or C.

c = /D4A00, /B4S00, /B4S10, /B4D00, /B4D10, /PRP, /CCC01, /CCC02, /SP1 or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
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Detection Cable	Redundant	11.6	1.4	0.01	1
	Single	11.6	0.7	0.01	1

### SDV531-abdc Digital Output Module

NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.

a = S or L

b = 2, 3, E or F.

d = 3 or C.

c = /D4A00, /B4S00, /B4S10, /B4D00, /B4D10, /PRP, /CCC01, /CCC02, /SP1 or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Detection Cable	Redundant	11.6	220	0.01	1
	Single	11.6	110	0.01	1

### SDV541-Sbdc Digital Output Module

NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.

b = 2, 3, E or F.

d = 3 or C.

c = /B4S00, /B4S10, /B4D00, /B4D10, /PRP, /CCC01, /CCC02, /SP1 or blank.

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Detection Cable	Redundant	11.6	220	0.01	1
	Single	11.6	110	0.01	1

### SDV521-Sbdc Digital Output Module

NI / I / 2 / ABCD / T4 Ta = 70°C; - NFM014-A13 Page 1 to 5-1.

b = 3 or F.

d = 3 or C

c = /PRP, /SP1 or blank

Nonincendive Field Wiring Parameters:

Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Detection Cable	Redundant	11.6	220	0.01	1
	Single	11.6	110	0.01	1

### SDV53A-Sb3c Digital Output Module

NI / I / 2 / ABCD / T4, Ta = 70°C - NFM014-A13 Page 1 to 5-1.

b = 3 or F.

c = /PRP, /SP1 or blank.

Nonincendive Field Wiring Parameters:

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Equipment supplying energy	Model	Voc (V)	Isc (mA)	Ca (μF)	La (mH)
Detection Cable	Redundant	11.6	220	0.01	1
	Single	11.6	110	0.01	1

**ALR111-Sb1 RS-232C Communication Module.**

**NI / I / 2 / ABCD / T4 Ta = 60°C.**

b = 0 or E.

**ALR121-Sba RS-422/RS-485 Serial Communication Module.**

**NI / I / 2 / ABCD / T4 Ta = 60°C (when a = 1), T4 Ta = 70°C (when a = B or 3).**

b = 0 or E.

a = Type 1 (With ISA Standard G3 option), B (With ISA Standard G3 and temperature (0 to 70°C)) or 3 (With ISA Standard G3 and temperature (-20 to 70°C))

**ALE111-Sba Ethernet Communication Module.**

**NI / I / 2 / ABCD / T4 Ta = 60°C (when a = 1), T4 Ta = 70°C (when a = 3).**

b = 0 or E.

a = Type 1 (With ISA Standard G3 option) or 3 (With ISA Standard G3 and temperature (-20 to 70°C))

**SBA4D-0b Analog Terminal Board (Single and Dual-Redundant, 16 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or F.

**SBT4D-0b TC/mV Terminal Board (Single and Dual-Redundant, 16 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or F.

**SBR4D-0b RTD Input Terminal Board (Single and Dual-Redundant, 16 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or F.

**SBD2D-0b Digital Terminal Board (Single and Dual-Redundant, 4 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 1 or F.

Nonincendive Field Wiring Parameters:

Equipment receiving energy	Vmax (V)	I <sub>max</sub> (mA)	C <sub>i</sub> (μF)	L <sub>i</sub> (μH)
Ready input DC	60	20	0	0

**SBD3D-ab Digital Terminal Board (Single and Dual-Redundant, 8 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

a = 0 for 24Vdc, or A for 48Vdc.

b = 1 or F.

Nonincendive Field Wiring Parameters:

Equipment receiving energy	Vmax (V)	I <sub>max</sub> (mA)	C <sub>i</sub> (μF)	L <sub>i</sub> (μH)

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Ready input DC	60	20	0	0
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### **SBD4D-0b Digital Terminal Board (Single and Dual-Redundant, 16 channel)**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1.**

b = 1 or F.

Nonincendive Field Wiring Parameters:

Equipment receiving energy	Vmax (V)	I <sub>max</sub> (mA)	C <sub>i</sub> (μF)	Li (μH)
Ready input DC	60	20	0	0

### **S1BB4D-0F Terminal Board for Analog Input, 3-wire**

**NI / I / 2 / ABCD / T4 Ta = 70°C - NFM014-A13 Page 1 to 5-1**

Nonincendive Field Wiring Parameters:

Equipment receiving energy	Vmax (V)	I <sub>max</sub> (mA)	C <sub>i</sub> (μF)	Li (μH)
Ready input DC	60	20	0	0

### **SEA4D-abc Analog Terminal Board for Single/Dual-Redundant Configuration**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = 0 without surge absorber, or 1 with surge absorber.

b = 1 or F.

c = /NTRY or blank.

### **SED4D-abc Digital Terminal Board for Single/Dual-Redundant Configuration**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = 0 without surge absorber, or 1 with surge absorber.

b = 1 or F.

c = /NTRY or blank.

### **SED2D-abc Digital Terminal Board for Single/Dual-Redundant Configuration**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = 0 without surge absorber, or 1 with surge absorber.

b = 1 or F.

c = /NTRY or blank.

### **SED3D-Abc Digital Terminal Board for Single/Dual-Redundant Configuration**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

b = 1 or F.

c = /NTRY or blank.

### **AEP7D-ab Primary Power Supply Bus Unit**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

b = 0, 1 or F.

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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## **AEPV7D-abc Primary Power Supply Bus Unit**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

b = cabinet, 0 (Yokogawa) or 1 (general)

c = 0, 1 or F.

## **AIP602 Fan Unit**

**NI / I / 2 / ABCD / T4 Ta = 70°C.**

## **YNT511D-c4ab Optical Bus Repeater for Dual-Redundant Control Bus**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

c = V or P.

a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

b = /NL or /KT.

## **YNT522D-c1ab Optical Bus Repeater for Dual-Redundant Control Bus**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

c = V or P.

a = Power supply, 1 (100 to 120Vac), 2 (220 to 240 Vac), or 4 (24Vdc).

b = /NL or /KT.

## **PW501 Power Supply Unit for YNT5\*\***

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **PW502 Power Supply Unit for YNT5\*\***

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **PW504 Power Supply Unit for YNT5\*\***

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **AIP578 Optical Transceiver Unit for Vnet Repeater**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **AIP591 Optical Transceiver Unit for Vnet Repeater**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **AIP171 Transceiver Control Unit for Vnet Repeater**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

## **AIP571 Electrical Transceiver Control Unit for Vnet Repeater**

**NI / I / 2 / ABCD / T4 Ta = 50°C.**

### 13. **Specific Conditions of Use:**

The equipment shall be installed in a lockable cabinet. The suitability of the installation shall be determined by the authority having jurisdiction.

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**14. Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

**15. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

**16. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
6 <sup>th</sup> March 2006	Original Issue.
11 <sup>th</sup> May 2016	<u>Supplement 13:</u> Report Reference: – RR204949 dated 11 <sup>th</sup> May 2016. Description of the Change: Added model code options
18 <sup>th</sup> October 2016	<u>Supplement 14:</u> Report Reference: – 3058624 dated 18 <sup>th</sup> October 2016 Description of the Change: Added model S1BB4D, deleted some models, and minor changes to some model code options.
13 <sup>th</sup> November 2016	<u>Supplement 15:</u> Report Reference: – RR207313 dated 13 <sup>th</sup> November 2016 Description of the Change: Added No-Tray option “NTRY” to some model codes.

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