

# Certificate of Compliance

**Certificate:** 1053837 (LR81741-C73)

**Master Contract:** 172608

**Project:** 2460970

**Date Issued:** January 24, 2012

**Issued to:** Yokogawa Electric Corporation

(location M21-5E)  
2-9-32 Nakacho  
Musashino-shi, Tokyo 180-8750  
Japan  
Attention: Akira Matsunaga

*The products listed below are eligible to bear the CSA Mark shown*



*Jay McVeigh*

Issued by: Jay McVeigh

**PRODUCTS**

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -  
Incendive Systems - For Hazardous Locations

**PRODUCTS**

Intrinsically Safe: Class I, Groups ABCD; Class II; Groups EFG; Class III; T4; CSA Encl Type 4X:

Non-Incendive: Class I, Div 2, Groups ABCD; Class II; Div 2, Groups FG; Class III; T4; CSA Encl Type 4X:

YTA Series Temperature Transmitter, Model Number YTA110, 310, 320-bAcde/f/g, intrinsically safe and non-Incendive for use in hazardous locations.

Electrical Parameters: Supply Input (+ - Terminals)

Sensor Input (Terminals 1 to 5)

V<sub>max</sub> = 30 Vdc

V<sub>max</sub> = 9 Vdc

I<sub>max</sub> = 165 mA dc

I<sub>sc</sub> = 40 mA



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$P_{max} = 0.9 \text{ W}$

$P_o = 90 \text{ mW}$

$C_i = 18 \text{ nF}$

$C_a = 1 \text{ }\mu\text{F}$

$L_i = 730 \text{ }\mu\text{H}$

$L_a = 10 \text{ mH}$

Notes:

- (1) The above model numbers include suffixes designating transmitter type, output signal, electrical connection, indicator, mounting, and options.
- (2) The suitability of the final combination is to be determined by the local authorities having jurisdiction.

**APPLICABLE REQUIREMENTS**

CSA Standards C22.2 No. 0-M1991 - General Requirements—Canadian Electrical Code, Part II.

No. 0.4- M1982 - Bonding and Grounding of Electrical Equipment.

No. 25-M1966 - Enclosures for Use in Class II, Group E, F&G Hazardous Locations.

No. 94-M1991 - Special Purpose Enclosures.

No. 142-M1987 - Process Control Equipment.

No. 157-92 - Intrinsically Safe and Non-Incendive Electrical Equipment for use in Hazardous Locations.

No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.



## *Supplement to Certificate of Compliance*

Certificate: 1053837

Master Contract: 172608

*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2460970	January 24, 2012	Update to 1053837 to include alternate construction not affecting Intrinsic Safety.

### History

0001053837	January 24, 2000	Update to CPU board
LR 81741-c73	October 14, 1998	Original Certification

# Certificate of Compliance

**Certificate:** 1089576 (LR 81741C-74)

**Master Contract:** 172608

**Project:** 2444636

**Date Issued:** August 8, 2011

**Issued to:** **Yokogawa Electric Corporation**  
2-9-32 Nakacho  
Musashino-shi, Tokyo 180-8750  
Japan  
Attention: Akira Matsunaga

*The products listed below are eligible to bear the CSA Mark shown*



*Jay McVeigh*

**Issued by:** Jay McVeigh

## PRODUCTS

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

Class I, Groups BCD; Class II; Groups EFG; Class III; T6; CSA Encl Type 4X; Class I, Div 2, Groups ABCD - Seals not Required:

YTA Series Temperature Transmitter, Model Number YTA110, 310, 320-bAcde/f/g, 42 Vdc max, for use in hazardous locations.

## Notes:

- (1) The above model numbers include suffixes designating transmitter type, output signal, electrical connection, indicator, mounting, and options.
- (2) The suitability of the final installation is to be determined by the local authorities having jurisdiction.

## APPLICABLE REQUIREMENTS

CSA Standards C22.2 No. 0-M1991 - General Requirements — Canadian Electrical Code, Part II.

CSA Standards C22.2 No. 0.4-M1982 - Bonding and Grounding of Electrical Equipment.



**Certificate:** 1089576 (LR 81741C-74)

**Master Contract:** 172608

**Project:** 2444636

**Date Issued:** August 8, 2011

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- CSA Standards C22.2 No.25-M1966 - Enclosures for Use in Class II, Group E,F&G Hazardous Locations.
  - CSA Standards C22.2 No. 30-M1986 - Explosion Proof Enclosures for use in Class I Hazardous Locations.
  - CSA Standards C22.2 No. 94 -M1991 - Special Purpose Enclosures.
  - CSA Standards C22.2 No. 142-M1987 - Process Control Equipment.
  - CSA Standards C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Electrical Equipment for use in Hazardous Locations.
  - CSA Standards C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
  - CSA Standards C22.2 No.1010.1-92 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part I: General Requirements.



## *Supplement to Certificate of Compliance*

**Certificate:** 1089576

**Master Contract:** 172608

*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2444636	August 8, 2011	Update to 1089576 to include Change of temperature range for lower side; correction of manufacture; correction of typographical error; addition of data sheet for epoxy resin

### **History**

LR 81741-c74; October 14, 1998; Original Certification. Certificate of Compliance Issued

1089576; May 30, 2000; Supercedes Report LR 81741-c74 to include alternate construction of YTA to include S.S. Housing and Fieldbus Type