

## Certificate of Compliance

Certificate:

1797320

**Master Contract:** 

190113

Project:

2086284

**Date Issued:** 

2008/10/07

Issued to:

**ABB Automation Products GmbH** 

**Borsigstrasse 2** Alzenau, 63755

Germany

Attention: Harald Mueller

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



Issued by:

Ron Wildish

Authorized by: Patricia Pasemko, Operations

Manager

tatinia Desemp

**PRODUCTS** 

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -

Incendive Systems - For Hazardous Locations

Class I, Div 2, Groups A, B, C and D:

Ex nL IIC T4:

Model HMI-Ex, Type A, Type AS, Type B and Type BS LCD Indicators; input rated 3 Vdc; nonincendive (terminal "JP1") with Entity input parameters of: Vmax/Ui = 9V, Imax/Ii = 65.2mA, Pmax/Pi = 101 mW, Ci = 0.4 uF, Li = 0 uH; when installed per installation Dwg. 214750; Temp. Code T4 @ Max Ambient 85 Deg C;



Certificate:

1797320

**Master Contract:** 

190113

**Project:** 

2086284

Date Issued:

2008/10/07

T-Code T6 @ Max Ambient 60 Deg C.

Note: Model HMI-Ex, Type A, Type AS, Type B and Type BS are open type units Certified as a component for use only in other equipment where the suitability of the combination is to be determined by the authority having jurisdiction.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I, Div. 1 & 2, Groups A, B, C and D:

Ex ia IIC T4:

Model HMI-Ex, Type A, Type AS, Type B and Type BS LCD Indicators; input rated 3 Vdc; intrinsically safe (terminal "JP1") with Entity input parameters of: Vmax/Ui = 9V, Imax/Ii = 65.2mA, Pmax/Pi = 101 mW, Ci = 0.4 uF, Li = 0 uH; when installed per installation Dwg. 213749; T-Code T4 @ Max Ambient 85 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Note: Model HMI-Ex, Type A, Type AS, Type B and Type BS are open type units Certified as a component for use only in other equipment where the suitability of the combination is to be determined by the authority having jurisdiction.

## **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-M91 - General Requirements - Canadian Electrical Code, Part II

C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-C22.2 No. 60079-0:07 - Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements

CAN/CSA-E60079-11:02 - Electrical apparatus for explosive gas atmospheres -Part 11: Intrinsic Safety "i"

CAN/CSA-E60079-15:02 - Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n"



## Supplement to Certificate of Compliance

Certificate: 1797320

**Master Contract:** 

190113

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

## **Product Certification History**

Project	Date	Description
2086284	2008/10/07	Update to cover minor modifications to the HMI-Ex, Type A, and the addition of models HMI-Ex, Type AS, Type B and Type BS.
1797320	2006/08/10	Model HMI-Ex, Type A LCD Indicator for Hazardous Locations



