



# Certificate of Compliance

**Certificate:** 70045374 (085562\_0\_000)

**Master Contract:** 180267

**Project:** 70045374

**Date Issued:** 2016-06-28

**Issued to:** BARTEC GmbH  
Max-Eyth-Str 16  
Bad Mergentheim, 97980  
GERMANY  
Attention: Nils Dohrmann

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** Priya Mehandru  
Priya Mehandru

## **PRODUCTS**

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

[Ex ia Ga] IIC  
G7-A0Z0-0007

Ex ia [ia Ga]IIC T4 Gb

Class I, Division 1, Groups A, B, C and D; Temperature Class T4

HART Add on Module 17-A1Z0-0005, ambient temperature range -20°C to 50°C

USB Power:  $U_i = 7.18$  V;  $I_i = 7.550$  A (current limited internally)

USB Data:  $U_i = 7.83$  V;  $I_i = 1.320$ A (current limited internally)

**Entity parameters power port:**

The power lines (Pin 8 and 9) of the USB port X102



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<b>Parameter</b>	<b>Value</b>
Ui	7.18V
Ii	7.55A
Pi	10.96W
Ci	0 nF
Li	100nH
Ri	11.95Ω

**Entity parameters data port:**

The data lines (Pin 6 and 7) of the USB port X102

<b>Parameter</b>	<b>Value</b>
Ui	7.83V
Ii	1.32 A
Pi	1.16W
Ci	3.02 μF
Li	100nH
Ri	11.95Ω

**Entity parameters of HART input:**

The HART input X301 on HART-Platine is connected to the banana sockets. The max. cable length is 1.8m (6 feet) which is allowed to be connected to the sockets.

<b>Parameter</b>	<b>Value</b>
Ui	30 V
Ii	130 mA
Pi	1 W
Ci	0 nF
Li	100nH
Uo	3V
Io	10mA
Po	6.5mW
Co	66nF
Lo	5mH
Ri	988Ω

**APPLICABLE REQUIREMENTS**

- |                           |   |
|---------------------------|---|
| C22.2 No. 0-10            | General Requirements – Canadian Electrical Code, Part II – 10 <sup>th</sup> Edition                     |
| C22.2 No. 0.4-04          | Bonding of Electrical Equipment – 3 <sup>rd</sup> Edition   |
| C22.2 No. 142-M1987       | Process Control Equipment – 3 <sup>rd</sup> Edition   |
| CSA C22.2 No. 60079-0     | Explosive atmospheres – Part 0: Equipment – General Requirements – 3 <sup>rd</sup> edition              |
| CSA C22.2 No. 60079-11:14 | Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” – 2 <sup>nd</sup> edition |



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UL 60079-0

UL Standard for Safety Explosive atmospheres – Part 0: Equipment – General Requirements – 6<sup>th</sup> Edition

UL 60079-11

UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i” – 6<sup>th</sup> Edition

UL 508

UL Standard for Safety Industrial Control Equipment – 17<sup>th</sup> Edition

UL 913

UL Standard for Safety Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division , Hazardous (Classified) Locations – 8<sup>th</sup> Edition

### **MARKINGS**

See report for complete details.



## *Supplement to Certificate of Compliance*

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*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>
70045374	2016-06-28	North American Certification for Canada & US for Bartec G7-A0Z0-0007 connecting to HART add on module Model 17-A1Z0-0005 based on IECEx test results and data rated for Class 1 Division 1 Groups A, B, C, D and the method of protection used is “ia”.