

FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

**EE300EX-HT6SAxxxxbcFMde**

IS/I, II, III/1/ABCDEFG/T4 -40°C < Ta < 60°C; Entity – M1\_1309080; IP65

NI/I /2/ABCD/T4 -40°C < Ta < 60°C

I/0/Ex ia IIC T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I <sub>max</sub> or I <sub>i</sub>	P <sub>i</sub>	L <sub>i</sub>	C <sub>i</sub>
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

- a = Electrical Connection; B, C or F
- b = Filter; C, D, E, I, J, K, L or M
- c = Sensor Protection; x or 1
- d = Special option; Blank or Gx
- e = Software Code: 11 Digits (Not Safety Relevant)

Special conditions of use:

- 1) Filter options C, E, J, K and L are not allowed in Groups A or B for Division 1 and EPL Ga IIC for Zone 0.
- 2) The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.

**EE300EX-HT6SaxbcdefgFMhi**

IS/I, II, III/1/ABCDEFG/T4 -40°C < Ta < 60°C; Entity – M1\_1309080; IP65

NI/I/2/ABCD/T4 -40°C < Ta < 60°C

I/0/Ex ia IIC T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I <sub>max</sub> or I <sub>i</sub>	P <sub>i</sub>	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

**Remote probe:**

IS/I,II,III/1/ABCDEFGH/T\* Entity – M1\_1309080; IP65

NI/I/2/ABCD/T\*

I/O/Ex ia IIC T\* Ga Entity – M1\_1309080; IP65

T\* - Temperature Code

T-Code	Ambient Temperature
T6	-40°C < Ta < 60°C
T5	-40°C < Ta < 75°C
T4	-40°C < Ta < 110°C
T3	-40°C < Ta < 175°C
T2	-40°C < Ta < 180°C
T1	-40°C < Ta < 180°C

a = Model; E, M, S or U

b = Electrical Connection; B, C or F

c = Probe – Cable Length; A, B, C, E, F, G or H

d = Probe Length; C, D, F, G, H, J, K or L

e = Zone Feedthrough (probe fitting): x, A, B, C, F or H

f = Filter; C, D, E, I, J, K, L or M

g = Sensor Protection; x or 1

h = Special option; Blank or Gx

i = Software Code: 11 Digits (Not Safety Relevant)

*Special conditions of use:*

- 1) Filter options C, E, J, K and L are not allowed in Groups A or B for Division 1 and EPL Ga IIC for Zone 0.
- 2) The EE300Ex Remote Probe is approved for in air applications only.
- 3) The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.

**EE300EX-HT6SADaxxbcFMde**

IS/I/1/CD/T4 -40°C < Ta < 60°C; Entity – M1\_1309080;

NI/I /2/ABCD/T4 -40°C < Ta < 60°C

I/O/Ex ia IIB T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080;

I/1/Ex ia IIC T4 -40°C < Ta < 60°C Gb; Entity – M1\_1309080;

Entity parameters:

Terminals	Vmax or Ui	I <sub>max</sub> or I <sub>i</sub>	P <sub>i</sub>	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

a = Electrical Connection; B, C or F

- b = Filter; C, D, E, I, J, K, L or M
- c = Sensor Protection; x or 1
- d = Special option; Blank or Gx
- e = Software Code: 11 Digits (Not Safety Relevant)

**Special conditions of use:**

- 1) Filter options C, E, J, K and L are not allowed in Groups A or B for Division 1 and EPL Ga IIC for Zone 0.
- 2) The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.

**EE300EX-HT6SaDbcdefgFMhi**

- IS/I/1/CD/T4 -40°C < Ta < 60°C; Entity – M1\_1309080;
- NI/I/2/ABCD/T4 -40°C < Ta < 60°C
- I/0/Ex ia IIB T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080;
- I/1/Ex ia IIC T4 -40°C < Ta < 60°C Gb; Entity – M1\_1309080;

**Entity parameters:**

Terminals	Vmax or Ui	Imax or li	Pi	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

**Remote probe:**

- IS/I /1/ABCD/T\* Entity – M1\_1309080; IP65
- NI/I/2/ABCD/T\*
- I/0/Ex ia IIC T\* Entity – M1\_1309080; IP65

**T\* - Temperature Code**

T-Code	Ambient Temperature
T6	-40°C < Ta < 60°C
T5	-40°C < Ta < 75°C
T4	-40°C < Ta < 110°C
T3	-40°C < Ta < 175°C
T2	-40°C < Ta < 180°C
T1	-40°C < Ta < 180°C

- a = Model; E, M, S or U
- b = Electrical Connection; B, C or F
- c = Probe – Cable Length; A, B, C, E, F, G or H
- d = Probe Length; C, D, F, G, H, J, K or L
- e = Zone Feedthrough (probe fitting): x, A, B, C, F or H
- f = Filter; C, D, E, I, J, K, L or M
- g = Sensor Protection; x or 1
- h = Special option; Blank or Gx
- i = Software Code: 11 Digits (Not Safety Relevant)

**Special conditions of use:**

- 1) Filter options C, E, J, K and L are not allowed in Groups A or B for Division 1 and EPL Ga IIC for Zone 0.
- 2) The EE300Ex Remote Probe is approved for in air applications only.

- 3) The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.

**EE300EX-xT6SAxxxxFMb**

IS/I, II, III/1/ABCDEFGH/T4 -40°C < Ta < 60°C; Entity – M1\_1309080; IP65

NI/I/2/ABCD/T4 -40°C < Ta < 60°C

I/O/Ex ia IIC T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I <sub>max</sub> or I <sub>i</sub>	Pi	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

a = Electrical Connection; B, C or F

b = Software Code: 6 Digits (Not Safety Relevant)

**EE300EX-xT6SaxbcdeFMf**

IS/I, II, III/1/ABCDEFGH/T4 -40°C < Ta < 60°C; Entity – M1\_1309080; IP65

NI/I/2/ABCD/T4 -40°C < Ta < 60°C

I/O/Ex ia IIC T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I <sub>max</sub> or I <sub>i</sub>	Pi	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤ 28Vdc	100mA	0.7W	0mH	2.2nF

**Remote probe:**

IS/I,II,III/1/ABCDEFGH/T\* Entity – M1\_1309080; IP65

NI/I /2/ABCD/T\*

I/O/Ex ia IIC T\* Entity – M1\_1309080; IP65

T\* - Temperature Code

T-Code	Ambient Temperature
T6	-70°C < Ta < 60°C
T5	-70°C < Ta < 75°C
T4	-70°C < Ta < 110°C
T3	-70°C < Ta < 175°C
T2	-70°C < Ta < 200°C
T1	-70°C < Ta < 200°C

a = Model; H

b = Electrical Connection; B, C or F

c = Probe – Cable Length; A, B, C, E, F, G or H

d = Probe length; E

e = Zone Feedthrough (probe fitting): x, I or J

f = Software Code: 6 Digits (Not Safety Relevant)

*Special conditions of use:*

- 1) The EE300Ex Remote Probe is approved for in air applications only.

- 2) The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.

**EE300EX-xT6SADaxxxFMb**

IS/I/1/CD/T4 -40°C < Ta < 60°C; Entity – M1\_1309080;  
 NI/I /2/ABCD/T4 -40°C < Ta < 60°C  
 I/O/Ex ia IIC T4 -40°C < Ta < 60°C; Entity – M1\_1309080;

Entity parameters:

Terminals	Vmax or Ui	Imax or li	Pi	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤28Vdc	100mA	0.7W	0mH	2.2nF

a = Electrical Connection; B, C or F  
 b = Software Code: 11 Digits (Not Safety Relevant)

**EE300EX-xT6SaDbcdeFMf**

IS/I/1/CD/T4 -40°C < Ta < 60°C; Entity – M1\_1309080;  
 NI/I/2/ABCD/T4 -40°C < Ta < 60°C  
 I/O/Ex ia IIB T4 -40°C < Ta < 60°C Ga; Entity – M1\_1309080;  
 I/1/Ex ia IIC T4 -40°C < Ta < 60°C Gb; Entity – M1\_1309080;

Entity parameters:

Terminals	Vmax or Ui	Imax or li	Pi	Li	Ci
CH 1: + and -	6.4Vdc ≤ Ui ≤28Vdc	100mA	0.7W	0mH	2.2nF
CH 2: + and -	6.4Vdc ≤ Ui ≤28Vdc	100mA	0.7W	0mH	2.2nF

**Remote probe:**

IS/I /1/ABCD/T\* Entity – M1\_1309080; IP65  
 NI/I/2/ABCD/T\*  
 I/O/Ex ia IIC T\* Entity – M1\_1309080; IP65

T\* - Temperature Code

T-Code	Ambient Temperature
T6	-70°C < Ta < 60°C
T5	-70°C < Ta < 75°C
T4	-70°C < Ta < 110°C
T3	-70°C < Ta < 175°C
T2	-70°C < Ta < 200°C
T1	-70°C < Ta < 200°C

a = Model; H  
 b = Electrical Connection; B, C or F  
 c = Probe – Cable Length; A, B, C, E, F, G or H  
 d = Probe length; E  
 e = Zone Feedthrough (probe fitting): x, I or J  
 f = Software Code: 6 Digits (Not Safety Relevant)

*Special conditions of use:*

- 1) *The EE300Ex Remote Probe is approved for in air applications only.*
- 2) *The serial software configuration port of the EE300EX may only be used with the Product Configuration Adapter HA011061.*

**Equipment Ratings:**

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G hazardous locations in accordance with drawing M1\_1309080,

Nonincendive for Class I Division 2, Groups A, B, C and D hazardous locations,

Intrinsically Safe for Class I, Zone 0, Group IIC hazardous locations in accordance with drawing M1\_1309080,

**FM Approved for:**

E+E ELEKTRONIK Ges.m.b.H  
Engerwitzdorf, Austria



Member of the FM Global Group

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

CAN/CSA C22.2 No. 0-M91	2006
CAN/CSA C22.2 No. 142-M1987	2004
CAN/CSA C22.2 No. 213-M1987	2004
CAN C22.2 No. 157-92	2006
CSA C22.2 No. 1010.1	2004
CSA C22.2 No. 60079-0	2009
CSA C22.2 No. 60079-11	2011


Original Project ID: 0003049300

Approval Granted: October 2, 2014

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
141126	December 15, 2014		

FM Approvals LLC

  
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J.E. Marquardt  
Manager, Electrical Systems

15 December 2014  
Date