



Member of the FM Global Group

FM Approvals

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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

EE300EX-HT6SAxxxxbcFMde

IS/I, II, III/1/ABCDEFGH/T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65

NI/I,II,III /2/ABCDEFGH/T4 -40°C < Ta < 60°C

I/O/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65

20/ AEx ia IIIC T131°C -40°C < Ta < 60°C; Entity – M1_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	Imax or Ii	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 = 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/ABCDEFGH/T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65

NI/I,II,III/2/ABCDEFGH/T4 -40°C < Ta < 60°C

I/O/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65

20/ AEx ia IIIC T131°C -40°C < Ta < 60°C; Entity – M1_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	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,II,III /2/ABCDEFGH/T*

I/O/AEx ia IIC T* Entity – M1_1309080; IP65

20/ AEx ia IIIC T80°C 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-HT6SADaxxxbcFMde

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/AEx ia IIB T4 -40°C < Ta < 60°C; Entity – M1_1309080;

I/1/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080;

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	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/O/AEx ia IIB T4 -40°C < Ta < 60°C; Entity – M1_1309080;

I/1/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080;

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	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,II,III /2/ABCDEFGH/T*

I/O/AEx ia IIC T* Entity – M1_1309080; IP65

20/ AEx ia IIIC T80°C 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:

To verify the availability of the Approved product, please refer to www.approvalguide.com

- 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,II,III/2/ABCDEFGH/T4 -40°C < Ta < 60°C
 I/0/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65
 20/ AEx ia IIIC T131°C -40°C < Ta < 60°C; Entity – M1_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	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,II,III /2/ABCDEFGH/T4 -40°C < Ta < 60°C
 I/0/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080; IP65
 20/ AEx ia IIIC T131°C -40°C < Ta < 60°C; Entity – M1_1309080; IP65

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	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,II,III /2/ABCDEFGH/T*
 I/0/AEx ia IIC T* Entity – M1_1309080; IP65
 20/ AEx ia IIIC T80°C 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/0/AEx ia IIB T4 -40°C < Ta < 60°C; Entity – M1_1309080;
 I/1/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080;

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	L _i	C _i
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-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/0/AEx ia IIB T4 -40°C < Ta < 60°C; Entity – M1_1309080;
 I/1/AEx ia IIC T4 -40°C < Ta < 60°C; Entity – M1_1309080;

Entity parameters:

Terminals	Vmax or Ui	I _{max} or I _i	P _i	L _i	C _i
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,II,III /2/ABCDEFGH/T*
 I/0/AEx ia IIC T* Entity – M1_1309080; IP65
 20/ AEx ia IIIC T80°C 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 (classified) locations in accordance with drawing M1_1309080,

Nonincendive for Class I, II, III Division 2, Groups A, B, C, D, E, F, and G hazardous (classified) locations,

Intrinsically Safe for Class I, Zone 0, Group IIC hazardous (classified) locations in accordance with drawing M1_1309080,

Intrinsically Safe for Class II and III, Zone 20, Group IIIC hazardous (classified) 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:

FM Class 3600	2011
FM Class 3610	2010
FM Class 3611	2004
FM Class 3810	2005
ANSI/ISA 61010-1	2004
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2009
ANSI/ISA 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	<i>December 15, 2014</i>		

FM Approvals LLC

J.E. Marquardt

 J.E. Marquardt
 Manager, Electrical Systems

15 December 2014

 Date