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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***FEP315abcdefghijkl0P1opqr ProcessMaster Electromagnetic Flowmeter – Integral version***

NI/ I, II / 2 / ABCDFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

S / III / T\* Ta = -40°C to +60°C; Type 4X; IP65

DIP / II, III / 1 / EFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

a = 3 digit number representing the bore diameter; 003, 004, 006, 008, 010, 015, 020, 025, 032, 040, 050, 065, 080, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 760, 800, 900, 001, 201, 401, 601, 801, or 002.

b = liner material; A, E, F, H, P, S, or U.

c = Electrode design; 1, 2, 5, or 6.

d = Measuring electrode material; A, D, E, F, G, H, J, K, N, S, or W.

e = Grounding accessories; 1, 2, 3, or 4.

f = Process connection type; D0, D1, D2, D3, D4, D5, D6, A1, A3, A6, A7, A8, A9, J1, J2, J3, E1 or E2.

g = Process connection material; B, C, or D.

h = Usage certifications; 0, 1, 2, 3, 4, 5, 6, or 7.

i = Calibration type; A, B, K, L, M, or T

j = Temperature range of sensor/Ambient temperature range; 1, 2, 3, or 4.

k = Name plate language and type; A, B, or C

o = Cable Conduits; A, B, or C.

p = Power supply; 1, 2, 3, or 4.

q = Input and output signal type; A, B, C, or D.

r = Configuration type/Diagnostics; 1, 2, 3 or 4.

***FEP325abcdefghijklIP1o0Yrs - ProcessMaster Electromagnetic Flowmeter – Remote version***

NI/ I, II / 2 / ABCDFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

S / III / T\* Ta = -40°C to +60°C; Type 4X; IP65

DIP / II, III / 1 / EFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

a = 3 digit number representing the bore diameter; 003, 004, 006, 008, 010, 015, 020, 025, 032, 040, 050, 065, 080, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 760, 800,



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- 900, 001, 201, 401, 601, 801, or 002.  
b = liner material; A, E, F, H, P, S, or U.  
c = Electrode design; 1, 2, 5, or 6.  
d = Measuring electrode material; A, D, E, F, G, H, J, K, N, S, or W.  
e = Grounding accessories; 1, 2, 3, or 4.  
f = Process connection type; D0, D1, D2, D3, D4, D5, D6, A1, A3, A6, A7, A8, A9, J1, J2, J3, E1 or E2.  
g = Process connection material; B, C, or D.  
h = Usage certifications; 0, 1, 2, 3, 4, 5, 6, or 7.  
i = Calibration type; A, B, K, L, M, or T  
j = Temperature range of sensor/Ambient temperature range; 1, 2, 3, or 4.  
k = Name plate language and type; A, B, or C  
l = Signal Cable length and type 0, 1, 2, 3, 4, 5, 6, 7, or 8.  
o = Cable Conduits; A, B, or C.  
p = Power supply; 1, 2, 3, or 4.  
q = Input and output signal type; A, B, C, or D.  
r = Configuration type/Diagnostics; 1, 2, 3 or 4.  
s = Accessories; AP or blank

**FEH315abcdefghijklmnopqrstuvwxyz0P1opqrs HygienicMaster Electromagnetic Flowmeter – Integral version**

NI/ I, II / 2 / ABCDFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

S / III / T\* Ta = -40°C to +60°C; Type 4X; IP65

DIP / II, III / 1 / EFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

- a = 3 digit number representing the bore diameter; 003, 004, 006, 008, 010, 015, 020, 025, 032, 040, 050, 065, 080, or 100.  
b = liner material; A, or P.  
c = Electrode design; 1, 2, 5, or 6.  
d = Measuring electrode material; A, D, E, F, G, H, J, K, N, S, or W.  
e = Grounding accessories; 1, or 2.  
f = Process connection type; D2, D4, D5, D6, A1, A3, J1, J2, J3, M1, F1, R1, R2, R3, R4, R5, R6, T1, T2, T3, W1, or Y0.  
g = Process connection material; C, D, E, F, G, H, W, or Y.  
h = Usage certifications; 0, 1, 2, 3, 4, 5, 6, or 7.  
i = Calibration type; A, B, K, L, M, or T  
j = Temperature range of sensor/Ambient temperature range; 1, 2, 3, or 4.  
k = Name plate language and type; A, B, or C.  
o = Cable Conduits; A, B, or C.  
p = Power supply; 1, 2, 3, or 4.  
q = Input and output signal type; A, B, C, or D.  
r = Configuration type/Diagnostics; 1, 2, 3 or 4.

**FEH325abcdefghijklmnopqrstuvwxyzIP1o0Yrs HygienicMaster Electromagnetic Flowmeter – Remote version**

NI/ I, II / 2 / ABCDFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

S / III / T\* Ta = -40°C to +60°C; Type 4X; IP65

DIP / II, III / 1 / EFG / T\* Ta = -40°C to +60°C; Type 4X; IP65

- a = 3 digit number representing the bore diameter; 003, 004, 006, 008, 010, 015, 020, 025, 032, 040, 050, 065, 080, or 100.  
b = liner material; A, or P.  
c = Electrode design; 1, 2, 5, or 6.  
d = Measuring electrode material; A, D, E, F, G, H, J, K, N, S, or W.  
e = Grounding accessories; 1, or 2.  
f = Process connection type; D2, D4, D5, D6, A1, A3, J1, J2, J3, M1, F1, R1, R2, R3, R4, R5, R6, T1, T2, T3, W1, or Y0.  
g = Process connection material; C, D, E, F, G, H, W, or Y.



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h = Usage certifications; 0, 1, 2, 3, 4, 5, 6, or 7.  
i = Calibration type; A, B, K, L, M, or T  
j = Temperature range of sensor/Ambient temperature range; 1, 2, 3, or 4.  
k = Name plate language and type; A, B, or C  
l = Signal Cable length and type; 0, 1, 2, 3, 4, 5, 6, 7, or 8  
o = Cable Conduits; A, B, or C.  
r = Configuration type/Diagnostics; 1, 2, 3 or 4.  
s = Accessories; AP or blank

**FET325jk0P1opqr Field Mount Transmitter only**

NI/ I, II / 2 / ABCDFG / T4 Ta = -40°C to +60°C; Type 4X; IP65

S / III / T4 Ta = -40°C to +60°C; Type 4X; IP65

DIP / II, III / 1 / EFG / T4 Ta = -40°C to +60°C; Type 4X; IP65

j = Temperature range of sensor/Ambient temperature range; 1, 2, 3, or 4.  
k = Name plate language and type; A, B, or C  
o = Cable Conduits; A, B, or C.  
p = Power supply; 1, 2, 3, or 4.  
q = Input and output signal type; A, B, C, or D.  
r = Configuration type/Diagnostics; 0, 1, 2, 3 or 4.

**Equipment Ratings:**

Nonincendive for Class I, Division 2, Groups A, B, C and D; Suitable for Class II, Division 2 Groups F and G; Suitable for Class III, Divisions 1 and 2; Dust ignition Protected for Class II and III, Division 1, Groups E, F and G. Temperature Class dependent on Ambient and Process Temperature (see IDM-10-A0228); Ambient Temperature -40°C to +60°C; Indoor and outdoor locations.

**FM Approved for:**

ABB Automation Products GmbH  
D-37079 Göttingen GERMANY



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

Class 3600	1998
Class 3611	2004
NEMA 250	1991

Original Project ID: 3034391

Approval Granted: *October 1, 2008*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

*J. E. Marquedant*

J. E. Marquedant  
Group Manager, Electrical

*1 October 2008*  
Date