



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

AH7abdLefHT49hijklm Humidity/Temperature Transmitter and Sensor

IS / I / 1 / ABCD / T4 Ta = 80°C - INST1046SP; Entity

NI / I / 2 / ABCD / T4 Ta = 80°C - INST1046SP

Entity Parameters:

$V_{Max} = 28\text{ V}$; $I_{Max} = 100\text{ mA}$; $C_i = 0.037\text{ }\mu\text{F}$; $L_i = 0\text{ }\mu\text{H}$.

a = Connection Head: 0, 4 or 5.

b = Probe Diameter: 1, 2, or 3.

d = Threads: P0, P1, P2, P3, P4, P5, P6, C0-C9.

e = Insertion Depth: 3-999.

f = Filter Type: T1 or T2.

h = Channel 1 Output: 0-9.

i = Display: A-Z.

j = Signal Output: 0-9.

k = Transmitter Calibration: A-Z.

l = Calibration Accuracy: 00-99.

m = Channel 2, Temperature Range Code: A-Z or AA-ZZ.

AH7abdLefHT49hijklm Humidity/Temperature Transmitter and Sensor

IS / I,II,III / 1 / ABCDEFG / T4 Ta = 80°C - INST1046SP; Entity (Type 4, 4X)

NI / I / 2 / ABCD / T4 Ta = 80°C; S / II, III / FG / T4 Ta = 80°C - INST1046SP (Type 4, 4X)

Entity Parameters:

$V_{Max} = 28\text{ V}$; $I_{Max} = 100\text{ mA}$; $C_i = 0.037\text{ }\mu\text{F}$; $L_i = 0\text{ }\mu\text{H}$.

a = Connection Head: 1, 2, or 3.

b = Probe Diameter: 1, 2, or 3.

d = Threads: P1, P2, P3, P4, P5 or P6.

e = Insertion Depth: 3-999.

f = Filter Type: T1 or T2.

h = Channel 1 Output: 0-9.

i = Display: A-Z.

j = Signal Output: 0-9.

k = Transmitter Calibration: A-Z.

l = Calibration Accuracy: 00-99.

m = Channel 2, Temperature Range Code: A-Z or AA-ZZ.

HT88nopqrs Humidity/Temperature Transmitter and Sensor

IS / I,II,III / 1 / ABCDEFG / T4 Ta = 80°C - INST1046SP; Entity (Type 4, 4X)

NI / I / 2 / ABCD / T4 Ta = 80°C; S / II, III / FG / T4 Ta = 80°C - INST1046SP (Type 4, 4X)

Entity Parameters:

$V_{Max} = 28 \text{ V}$; $I_{Max} = 100 \text{ mA}$; $C_i = 0.037 \text{ uF}$; $L_i = 0 \text{ uH}$.

n = Connection Head: 0, 5D, or 5N.

o = Transmitter Calibration: A-Z.

p = Calibration Accuracy: 0-99.

q = Temperature Range: A-Z or AA-ZZ.

r = Insertion Depth: 3-999.

s = Agency Approval: FI.

Equipment Ratings:

For AH7 models with Connection Head: 0, 4 or 5 option selected: Intrinsically safe apparatus for use in Class I, Division 1, Groups A, B, C, D, hazardous (classified) locations (TYPE 4, 4X), in accordance with Entity requirements and Control Drawing INST1046SP and as Nonincendive for use in Class I, Division 2, Groups A, B, C, D hazardous (classified) locations (TYPE 4, 4X).

For HT88 models or AH7 models with Connection Head: 1, 2, or 3 option selected :Intrinsically safe apparatus for use in Class I, II, III Division 1, Groups A, B, C, D, E, F and G hazardous (classified) locations (TYPE 4, 4X)., in accordance with Entity requirements and Control Drawing INST1046SP and as Nonincendive for use in Class I,II, III Division 2, Groups A, B, C, D, F & G hazardous(classified) locations. (TYPE 4, 4X).

FM Approved for:

Minco Products, Inc.
Minneapolis, MN, USA



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

CSA C22.2 No. 25	1998
CSA C22.2 No. 94	1991
CSA C22.2 No. 142	1993
CSA C22.2 No. 157	2002

Original Project ID: 3024466

Approval Granted: February 17, 2006

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
090624	July 7, 2009		
101216	May 2, 2011		

FM Approvals LLC



J.E. Marquedant

Group Manager, Electrical



Date