



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

691HT 7 d e f g 000000. Handheld Data Terminal.
IS / I / 1 / ABCD / T4 Ta = 50 °C; - 1H5-15-10061 Entity
NI / I / 2 / ABCD / T4, Ta = 50 °C; - 1H5-15-10061

d = Recharger Service: 2
e = Language: A - Z, 1 - 9
f = Software Release: A - Z or 1 - 9
g = Lead Set for PC: 2

Special Condition for use;

- 1) Must be used with ABB Battery AC5-15-26140/01.
- 2) Use of the Charger Port is not allowed while the 691HT is connected to or located in the hazardous area.
- 3) Use of the Serial Port is not allowed while the 691HT is connected to or located in the hazardous area.

Entity Parameters:

V_{max} = 30 V, I_{max} = 150 mA, P_i = 0.75 W, C_i = 0.04 µF, L_i = 0
V_{oc} = 1.5 V, I_{sc} = 47 mA, P_o = 0.02 W, C_a = 1,000 µF, L_a = 17 mH

Non incensive field wiring Parameters:

V_{max} = 42, I_{max} = 250 mA, C_i = 0.04 µF, L_i = 0 µH
V_{oc} = 42 volts, I_{sc} = 250 mA, C_a = 1,000 µF, L_a = 30 mH

Equipment Ratings:

Intrinsically safe for Class I, Division 1, Groups A, B, C, and D hazardous (classified) locations and suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

Approved for:

ABB SACE Spa
Via Statale 113
Lenno (Co), Italy I-22016



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

Class 3600	1998
Class 3610	1999
Class 3611	1999

Original Project ID: 3008725

FM Approval Granted: July 8, 2002

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
3017562	June 2, 2003		

FM Global Technologies LLC

David W. Styrula
Technical Team Manager

6/26/03
Date