



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:

DHH805A Hand Held Communicator

IS / I / 1 / ABCD / T4 Ta = -10°C to +50°C; DH3219; Entity
NI / I / 2 / ABCD / T4 Ta = -10°C to +50°C; DH3219; NIFW
I / 0 / AEx ia IIC / T4 Ta = -10°C to +50°C; DH3219; Entity
I / 2 / IIC / T4 Ta = -10°C to +50°C; DH3219; NIFW

Entity Parameters:

Ui = 30 V, Ii = 215mA, Pi = .85 W, Ci = 0.04uF, Li = 0mH
Voc = 2.6Vdc, Isc = 18mA, Po = 61mW, Ca = 99uF, La = 100mH

NIFW Parameters: Vmax = 42Vdc, Imax = 250mA, Ci = 0.04uF, Li = 0mH

Voc = 2.6Vdc, Isc = 18mA, Po = 61mW, Ca = 99uF, La = 100mH

Special Conditions of Use:

- 1) *The Hand Held Communicator DH805A must be charged outside the explosion hazardous area. During charging the reduced temperature range of Ta = 10°C to 35°C must be adhered.*
- 2) *The Hand held Communicator DH805A must be used with the battery pack type AU3153 inside the explosion hazardous area. The battery pack of type AU3160 maybe used only outside the explosion hazardous area.*
- 3) *The connection of the USB-communication must be done outside the explosion hazardous area. During USB-communication the reduced temperature range of Ta = 10°C to 40°C must be adhered.*
- 4) *The HART interface shall be used only in parallel connection to avoid voltage addition.*
- 5) *The use of the protection rubber is permitted inside the explosion hazardous area. The use of the elastic band is not permitted inside the explosion hazardous area.*



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Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C, and D; Intrinsically Safe for Class I, Zone 0, Group IIC; Nonincendive for Class I, Division 2, Groups A, B, C, and D and Class I, Zone 2, Group IIC hazardous (Classified) indoor locations per control drawing DH3219. Temperature class T4 with an ambient temperature range of -10°C to +50°C.

FM Approved for:

ABB SpA
Lenno (Como), Italy



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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	2011
Class 3610	2010
Class 3611	2004
Class 3810	2005
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

Original Project ID: 3046906

Approval Granted: December 20, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



J.E. Marquedant
Group Manager, Electrical

20 December 2012

Date