

EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3]

EC-Type Examination Certificate Number: **DEMKO 13 ATEX 1115457 Rev. 1**

[4]

Equipment or Protective System: **HART Communicator, Model 5150X**

[5]

Manufacturer: **Meriam Process Technologies**

[6]

Address: **10920 Madison Ave., Cleveland, OH 44102 USA**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **SR10155378**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-11:2012

EN 60079-26:2007

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.

These are not covered by the certificate.

[12]

The marking of the equipment or protective system shall include the following:

II 1 G Ex ia IIC T4 Ga

Certification Manager
Jan-Erik Storgaard

Notified Body

This is to certify that the sample(s) of the Product(s) described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2013-06-27

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Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 13 ATEX 1115457 Rev. 1

Report: SR 10155378

[15]

Description of Equipment or protective system

The apparatus, a HART Communicator, designated as Model 5150X is a handheld process communicator for use in Class I, Zone 0, Group IIC T4 with an ambient temperature range of -20°C to +50°C.

It is battery powered by a replaceable battery pack (Meriam part no. Z9A820-X).

Temperature range

The ambient temperature range is -10 °C to +50 °C. The lower ambient is marked for functional, not safety, reasons.

Electrical data

Intrinsically safe specifications:

U_m : 5 V

Hart Terminals:

U_i : 30 V

I_i : 200 mA

P_i : 1.25 W

L_i : 0 mH

C_i : 0 nF

Installation instructions

Meriam drawing 9R289

[16]

Report No.

Project Report No.: SR10155378 (Hazardous Location Testing)

Documents:

Description:

Drawing No.:

Rev. Level:

Date:

Description:	Drawing No.:	Rev. Level:	Date:
MFC 5150 Hart Communicator - Meriam Control Drawing	9R289	A	2013-05-14
Final Assy, Mach 5 Agency Drawing	9R258	A	2013-03-31
IS Control, Battery PCB	9R306	B	2013-05-31
Assy, Final Battery Pack	9R255	A	2013-05-31
Peripheral PCB Control Dwg (11 sheets)	9R304	A	2013-05-31
Display PCB Control Drawing (3 sheets)	9R303	B	2013-05-31
Assy, Control Display M5	9R256	B	2013-05-31
IS Control Processor PCB	9R305	B	2013-05-31
Keypad, Control Drawing 5105 Series	9R254	A	2013-03-19

[17]

Special conditions for safe use:

None.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

