

EC-TYPE EXAMINATION CERTIFICATE



- [2] **Component intended for use on/in equipment or protective system
intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 09 ATEX 143400U Rev. 0**
- [4] Component: **MPD Adaptor**
- [5] Manufacturer: **Honeywell Analytics Inc.**
- [6] Address: **405 Barclay Boulevard, Lincolnshire IL 60069 USA**
- [7] This Component 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 component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components 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. **11NK16687**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012 EN 60079-1:2007 EN 60079-31:2009**
- [10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- [12] The marking of the component shall include the following:

 **II 2 G Ex d IIB + H₂ Gb**

 **II 2 D Ex tb IIIC Db IP66**

Certification Manager
Jan-Erik Storgaard

Date of issue: 2009-06-11

Re-issued: 2013-01-07

Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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This is to certify that the Product(s) described herein has been investigated to the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. The certificate and test results obtained apply only to the Product(s) tested. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all Product(s) described herein to all applicable standards, specifications, requirements and Directives.



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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 09 ATEX 143400U Rev. 0
Report: 11NK16687

[15]

Description of Component:

The MPD (Multi Purpose Detector) is a serviceable flameproof and dust ignition protected housing, offered with either Catalytic Bead or Infrared sensors for the measurement of flammable and toxic gasses. The assembly is constructed of 316 stainless steel and is supplied with M25 threads for connection to the XNX Universal Gas Transmitter manufactured by Honeywell Analytics, or a similar device certified for the Hazardous Location. The MPD can also be remotely mounted to a transmitter in a non-hazardous location.

Nomenclature for type *MPD Adapter*

MPD	A	M	IC1
I	II	III	IV

- I – Series
MPD – Multi Purpose Gas Detector
- II – Agency/Approval
A – ATEX
- III – Thread Type
M – Metric
- IV – Sensor
CB1 – Catalytic Bead Methane 0-100% LEL
IV1 – Methane 0-5% Vol and 0-100% LEL
IF1 – Propane 0-100% LEL
IC1 – Carbon Dioxide 0-5% Vol

Temperature range

The ambient temperature range is -40 °C to + 65 °C.

Electrical data

Model	Vmax	I _{max}
AMCB1	2.9	0.2
AMIV1	4.0	0.08
AMIF1	4.0	0.08
AMIC1	4.0	0.08

Installation instructions

All cable entry devices shall be certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

Component gets no hotter than an operating temperature code of T4 when installed according to the electrical specifications on schedule drawing 1226E0309.

Outside temperature of the sintered metal measured 108°C during an explosion inside the device.

Normal operating temperature is less than 85C for Dust.

Routine tests

Routine tests according to EN 60079-1 cl.16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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Report No.:

Project Report No.: 11NK16687 (Hazardous Location Testing)

Documents:

Description:

MPD Adapter M25, SCH DWG
 MPD Label – ATEX M25
 Flame Arrestor, SS SCH DWG
 Quick Start Guide

Drawing No.:

1226E0099
 1226E0309
 1226E0096
 1998-0745

Rev. Level:

3
 3
 2
 8

Date:

2012-12-04
 2012-12-06
 2009-06-04
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Schedule
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Schedule of limitations:

- The MPD Adapter M25 must be installed with the face of the sintered metal positioned downward to reduce the risk of impact on the sintered metal.

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Essential Health and Safety Requirements

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

Additional information

The MPD Adapter M25 has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

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.

