



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX UL 16.0131X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2016-12-05)

Status: **Current** Issue No: 1

Date of Issue: 2021-08-19

Applicant: **Dwyer Instruments Inc.**
102 Indiana Highway 212
Michigan City, IN 46360
United States of America

Equipment: **Particulate Transmitter, PMT2 Series**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIB T4 Ga
Ex ia IIIC T120°C Da
-40°C ≤ Tamb ≤ +63°C

Approved for issue on behalf of the IECEx
Certification Body:

Erin LaRocco

Position:

Staff Engineer

Signature:
(for printed version)

Erin LaRocco

Date:

2021-08-19

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Dwyer Instruments Inc**
102 Indiana Highway 212
Michigan City, IN, 46360
United States of America

Additional manufacturing locations: **Proximity Controls Inc., A Division of Dwyer Instruments, Inc.**
1431 State Highway 210 East
Fergus Falls, MN 56537
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/UL/ExTR16.0155/00](#)

[US/UL/ExTR16.0155/01](#)

Quality Assessment Report:

[CA/CSA/QAR09.0006/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model PMT2 is a permanently installed particulate transmitter powered by two associated apparatus with corresponding entity parameters.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Warning - Enclosure contains aluminium. Care must be taken to avoid hazard due to impact or friction.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Update IEC 60079-0 to the latest edition. Minor editorial updates to drawings.

Annex:

[Annex to IECEx UL 16.0131X Issue 1.pdf](#)



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TYPE DESIGNATION

Nomenclature for PMT2 Series

PMT2 – 03 – A – A2 – MT

I. II. III. IV. V.

- I. Series Designation
 - PMT2
- II. Probe Length
 - XX - Up to 2 numeric characters defining probe insertion length (maximum 36" [914mm]).
- III. Process Connection
 - A - 3/4" Male NPT
 - B - 1.5" Tri-Clamp with 1" NPT Male
 - C - 3/4" Male BSPT
 - D - 1.5" TRI-Clamp with 1" BSPT Male
- IV. Rating Designation
 - A2 - ATEX / IECEx
- V. Options
 - M2 - M20 Electrical Entries
 - ST - Stainless Steel Tag

PARAMETERS RELATING TO THE SAFETY

Intrinsically Safe Entity Parameters:

Terminals	Ui (V)	Ii (mA)	Ci (uF)	Li (mH)	Pi (mW)
4-20 mA Signal	28	93	0.022	0.373	651
Remote Zero	28	93	Negligible	0.0	651

MARKING

Marking has to be readable and indelible; it has to include the following indications:



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DWYER INSTRUMENTS, INC.
MICHIGAN CITY, IN. 46360, U.S.A.

PARTICULATE TRANSMITTER
MODEL _____ DATE CODE _____

MAX PRESSURE: 30 PSI (2.07 BAR) OUTPUT: 4-20mA
SUPPLY VOLTAGE: 9.5 TO 28 Vdc (---)

CE 2813 **Ex**

II 1 G Ex Ia IIB T4 Ga (-40°C ≤ Tamb ≤ 63°C)(-40°C ≤ Tprocess ≤ 120°C)
II 1 D Ex Ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C)(-40°C ≤ Tprocess ≤ 120°C)
IP65 DEMKO 16 ATEX 1768X

Ex Ia IIB T4 Ga (-40°C ≤ Tamb ≤ 63°C)(-40°C ≤ Tprocess ≤ 120°C)
Ex Ia IIIC T120°C Da (-40°C ≤ Tamb ≤ 63°C)(-40°C ≤ Tprocess ≤ 120°C)
IP65 IECEx UL 16.0131X

WARNING - DO NOT OPEN WHEN ENERGIZED
WARNING - READ INSTRUCTION MANUAL

WIRING TERMINALS

TERMINAL 1	REMOTE ZERO +	TERMINAL 3	4-20MA LOOP +
TERMINAL 2	REMOTE ZERO -	TERMINAL 4	4-20MA LOOP -

ENTITY PARAMETERS

CIRCUIT	Imax (II)	Vmax (UI)	Pmax (PI)	CI	LI
4-20mA SIGNAL	93mA	28V	651mW	.022uF	.373mH
REMOTE ZERO	93mA	28V	651mW	NEGL	0mH

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