Base Load Power Hub (BLPH)

INSTRUMENT AIR PACKAGE
ATEX DOCUMENTATION

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Document Class: 2

02	29/04/2025	Accepted for Construction (AFC)	GT	MC	TM
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Rev.	Date	Description	Prepared	Reviewed	Approved

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CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 08ATEX0090X** Issue Number: **7**

(4) Product: **Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP**

(5) Manufacturer: **Rosemount Inc.**

(6) Address: **6021 Innovation Blvd, Shakopee, MN 55379, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR07.0072/06.

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

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-26 : 2015**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1/2 G Ex db IIC T6...T4 Ga/Gb

Date of certification: 30 January 2024

DEKRA Certification B.V.



L.G. van Schie
Certification Manager

Throughout this document, a point is used as the decimal separator.

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 08ATEX0090X** Issue No. **7**

(15) **Description**

Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP, are microprocessor based transmitters in type of protection flameproof “d” and used to convert the measured process pressure into digital or analog signals.

Type designation

2051	**C**	**A**	**…**
I	II	III	variants

Designation	Explanation	Value	Explanation
I	Model	2051	Transmitter
II	Type	C T L CFA CFC CFP	Coplanar Inline Liquid Level Annubar Flowmeter Compact Flowmeter Integral Orifice Flowmeter
III	Signal Output	A F W M	4-20 mA w/ HART Foundation fieldbus Profibus PA Low Power 1-5 V Hart

Variants

Static Pressure Ranges	0,1,2,3,4,5, 5A,P9	689 bar maximum pressure
Isolating diaphragm material	2 3 4 5 6 7	316L SST Alloy C-276 Alloy 400 Tantalum Gold Plated Alloy 400 Gold Plated SST
Ex d housing material and entries	A B E F J K	Aluminum ½ NPT Aluminum M20x1.5 Low Copper Aluminum ½ NPT Low Copper Aluminum M20x1.5 SST ½ NPT SST M20x1.5
Display and Interface Options	- M4 M5	No Display LCD Display with Operator interface LCD Display
Temperature option For Models 2051CFA, 2051CFC and 2051CFP only.	0 T R	No temperature option Integral RTD Remote thermowell and RTD
Conduit Electrical Connector	Custom	Not in scope of this certificate
Wireless Options	Custom	Not in scope of this certificate

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 08ATEX0090X** Issue No. **7**

Non-standard paint	Custom	Condition as listed in the certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate.		

Thermal data

The relation between process connection temperature, ambient temperature and temperature class is as follows:

Process connection temperature range [°C]	Ambient temperature range [°C]	Temperature class
-60 to +70	-60 to +70	T6
-60 to +80	-60 to +80	T5
-60 to +120	-60 to +80	T4

Electrical data

Power supply: 9 – 28 Vdc, 9 – 32 Vdc or 10.5 – 42.4 Vdc; 1 W
Output: 4 – 20 mA with digital HART, a fieldbus signal or a low power 1 – 5 Vdc signal

Installation instructions

The manufacturers instructions shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR07.0072/06.

(17) **Specific conditions of use**

This device contains a thin wall diaphragm less than 1 mm thick that forms a boundary between Category 1G (process connection) and Category 2G (all other parts of the equipment). The model code and datasheet are to be consulted for details of the diaphragm material. During installation, maintenance and use the environmental conditions to which the diaphragm will be subjected shall be taken into account. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

Flameproof joints are not intended for repair.

Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered a special option code, contact the manufacturer for more information.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR07.0072/06.

EU-Konformitätserklärung
EU Declaration of Conformity

Dokument Nr. / ***Document No.*** **11564220** — **Revision** / ***Issue*** **07**

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte
We declare under our sole responsibility that the CE marked products

Typenbezeichnung / ***Type Designation***

23a.50.063 + option ATEX | **23a.50.1*0 + option ATEX**
26a.50.063 + option ATEX | **26a.50.1*0 + option ATEX**
23a.30.063 + option ATEX | **23a.30.1*0 + option ATEX**
26a.30.063 + option ATEX | **26a.30.1*0 + option ATEX**
23a.53.063 + option ATEX | **23a.53.100 + option ATEX**
23a.54.063 + option ATEX | **23a.54.100 + option ATEX**
23a.36.1*0 + option ATEX
PG23LT.063 + option ATEX | **PG23LT.1*0 + option ATEX**
PG23CP.063 + option ATEX | **PG23CP.100 + option ATEX**
PG28.1*0 + option ATEX
PG23HP-S.1*0 + option ATEX | **PG23HP-P.1*0 + option ATEX**

*** Nominal size**
0 = 100mm
6 = 160mm

a Case filling
2 = Without case filling
3 = With case filling

Beschreibung / ***Description***: **Rohrfederdruckmessgerät** / ***Bourdon Tube Pressure Gauge***

gemäß gültigem Datenblatt / *according to the valid data sheet*: PM 02.02, PM 02.04, PM 02.12, PM 02.15, PM 02.22, PM 02.24, PM 02.32, PM 02.28, PM 02.29

mit den nachfolgenden relevanten Harmonisierungsvorschriften der Union übereinstimmen
are in conformity with the following relevant Union harmonisation legislation

Angewandte harmonisierte Normen oder sonstige technische Spezifikationen:
Applied harmonised standards or other technical specifications:

2014/68/EU	Druckgeräterichtlinie (DGRL) (1) *Pressure Equipment Directive (PED)* (1)	
2014/34/EU	Explosionsschutz (ATEX) (2) *Explosion protection (ATEX)* (2)	
Ex	II 2G Ex h IIC T6 … T1 Gb X II 2D Ex h IIIC T85 °C … T450 °C Db X	EN ISO 80079-36 :2016 EN ISO 80079-37 :2016

(1) PS > 200 bar; Modul A, druckhaltendes Ausrüstungsteil
PS > 200 bar; Module A, pressure accessory

(2) Modul A „interne Fertigungskontrolle“. Die Dokumentation ist hinterlegt unter der Nummer 074/24 bei der Notifizierten Stelle der EU, IBExU Institut für Sicherheitstechnik GmbH (EU ID-Nr. 0637).
Module A “Internal Control of Production”. The Documentation is deposited under registration number 074/24 at Notified Body of EU, IBExU Institut für Sicherheitstechnik GmbH (EU ID 0637). .

Unterzeichnet für und im Namen von / *Signed for and on behalf of*

WIKA Alexander Wiegand SE & Co. KG

Klingenberg, 2024-04-24

Sascha Schnellbacher, Vice President
CoE Gauges, Sensors & Instruments

Mariusz Lubomski, Director of Quality
CoE Gauges, Sensors & Instruments

EU-Konformitätserklärung
EU Declaration of Conformity

Dokument Nr.
Document No. **14203565.03**

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte
We declare under our sole responsibility that the CE marked products

Typenbezeichnung
Type Designation

732.14.1*0 + option ATEX	**733.14.1*0 + option ATEX**
762.14.1*0 + option ATEX	**763.14.1*0 + option ATEX**
732.31.1*0 + option ATEX	**733.31.1*0 + option ATEX**
732.51.1*0 + option ATEX	**733.51.1*0 + option ATEX**

*** Nenngröße / *Nominal Size:***
0 = 100 mm
6 = 160 mm

Beschreibung
Description **Differenzdruckmessgerät**
Differential Pressure Gauge

gemäß gültigem Datenblatt
according to the valid data sheet PM 07.13, PM 07.05

mit den nachfolgenden relevanten Harmonisierungsvorschriften der Union übereinstimmen
are in conformity with the following relevant Union harmonisation legislation

Angewandte harmonisierte Normen
Applied harmonised standards

2014/68/EU	Druckgeräterichtlinie (DGRL) (1) *Pressure Equipment Directive (PED) (1)*	
2014/34/EU	Explosionsschutz (ATEX) (2) *Explosion protection (ATEX) (2)*	
	II 2G Ex h IIC T6 ... T1 Gb X II 2D Ex h IIIC T85 °C ... T450 °C Db X	EN ISO 80079-36:2016 EN ISO 80079-37:2016

(1) PS > 200 bar; Modul A, druckhaltendes Ausrüstungsteil
PS > 200 bar; Module A, pressure accessory

(2) Konformitätsbewertungsverfahren „interne Fertigungskontrolle". Die Dokumentation ist hinterlegt bei notifizierter Stelle TÜV NORD CERT GmbH, Essen (Nr. 0044), Aktennummer 35192994.
Conformity assessment procedure "internal control of production". The Documentation is deposited at notified body TÜV NORD CERT GmbH, Essen (no. 0044), reference number 35192994

Unterzeichnet für und im Namen von / *Signed for and on behalf of*

WIKA Alexander Wiegand SE & Co. KG

Klingenberg, 2021-07-06

i.V. A. Häfner

Alfred Häfner, Vice President
Process Instrumentation Pressure

i.A. Dahl Stapf

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Kommanditgesellschaft: Sitz Klingenberg – Amtsgericht Aschaffenburg HRA 1819

Komplementärin:
WIKA International SE - Sitz Klingenberg - Amtsgericht Aschaffenburg HRB 10505
Vorstand: Alexander Wiegand
Vorsitzender des Aufsichtsrats: Dr. Max Egli

2 **Appareil ou système de protection destiné à être utilisé en atmosphères explosibles**
Equipment and protective systems intended for use in potentially explosive atmospheres

Directive 2014/34/UE Directive 2014/34/EU

1 **NOTIFICATION ASSURANCE QUALITE PRODUCTION**

PRODUCTION QUALITY ASSURANCE NOTIFICATION

3 Numéro de la notification / *Notification Number:*

INERIS 19ATEXQ403

Indice / *Issue* **01**

La Catégorie de produit est : / *The Product Category* is:

1 ou/*or* 2

5 Fabricant : / *Manufacturer:*

TE.MA Srl
Via Baranchina, 4,
21020 TERNATE (VA), ITALIE

6 Site(s) du fabricant : / *Manufacturer site(s):*

TE.MA Srl
Via Baranchina, 4,
21020 TERNATE (VA), ITALIE

4 La liste des produits (Appareils et Systèmes de protection) couverts par la notification est insérée dans le rapport d'audit référencé en (8) ci-après.

List of Products (Equipment and Protective Systems) covered by this notification is included in the assessment report referenced in (8) here after.

7 L'Ineris, organisme notifié et identifié sous le numéro 0080, conformément aux articles 17 and 21 de la directive 2014/34/UE du Parlement Européen et du Conseil, datée du 26 février 2014, et accrédité par le Cofrac sous le n° 5-0045 dans le cadre de l'activité de certification de produits et services (portée disponible sur www.cofrac.fr), notifie que le fabricant dispose d'un système qualité de la production qui satisfait au Module D, annexe IV de la directive. Ce système qualité conforme au Module D, annexe IV satisfait également au Module E, Annex VII.

Ineris, notified body and identified under number 0080, in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, and accredited by Cofrac under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr), notifies that the manufacturer has a production quality system which complies with Module D, Annex IV of the Directive. This quality system in compliance with Module D, Annex IV of the Directive also meets the requirements of Module E, Annex VII.

8 La présente notification repose sur le rapport de l'audit dont la référence est :

This notification is based on the following assessment report number:

N° 207379

Les résultats des réévaluations périodiques du système qualité font partie de la présente notification.

Results of periodical re-assessment of the quality system are a part of this notification.

9 La présente notification est valide jusqu'à la date indiquée ci-après, et peut être retirée si le fabricant ne satisfait plus aux exigences Module D, annexe IV et Module E, annexe VII :

This notification is valid until the following date and can be withdrawn if the manufacturer no longer satisfies the requirements of Module D, Annex IV resp. Module E, Annex VII:

Date de prise d'effet	**2022-11-22**	Effective date
Date de fin de validité	**2025-11-22**	Expiry date

Conformément à l'article 16 de la directive 2014/34/UE, le marquage CE sera suivie du numéro 0080 identifiant l'organisme notifié impliqué dans la phase de contrôle de la production

According to Article 16 of the Directive 2014/34/EU, the CE marking shall be followed by the identification Number 0080 identifying the notified body involved in the production control stage.

Le directeur général de l'Ineris
Par délégation

The Chief Executive Officer of Ineris
By delegation

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Only the entire document including annexes may be reprinted.

IM-1389AK - ID 2161539 v4.0 – Mise en application : 18/10/2022

Institut national de l'environnement industriel et des risques
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www.ineris.fr
Établissement public à caractère industriel et commercial • RCS Compiègne B 381 984 921 - Siret 381 984 921 00019 • 7120B - TVA Intracom FR 73 381 984 921

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 19ATEX0076X** Issue Number: **5**

(4) Product: **Temperature Transmitter, Model 644, 3144P, 148 and 248**
Temperature Sensors, Model 214C, 65, 85 and 185

(5) Manufacturer: **Rosemount Inc.**

(6) Address: **6021 Innovation Blvd, Shakopee, MN 55379, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR19.0050/05.

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

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-31 : 2014**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db IIC T6...T1 Gb
II 2 D Ex tb IIIC T130 °C Db

Date of certification: 29 Februari 2024

DEKRA Certification B.V.

R. Schuller
Certification Manager

Throughout this document, a point is used as the decimal separator.

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T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

(15) **Description**

The Temperature Transmitter, Model 644, 3144P, 148 and 248, accepts inputs from temperature sensors and transmits the data via 4-23 mA current loop or digital communication. The transmitters are in type of protection flameproof enclosures "d" and dust ignition protection by enclosure “t” and can be provided with or without a cemented window meter cover (for optional LCD display) and utilize a Head Mount or Field Mount enclosure for either a Single or Dual Sensor.

The Temperature Sensor, Model 214C, 65 and 185, can be either a DIN style or Adapter style sensor in type of protection flameproof enclosures "d" and dust ignition protection by enclosure “t”. Both sensor types can be connected to a Rosemount temperature transmitter to form a complete assembly. When not assembled to a Rosemount temperature transmitter, the DIN style sensors are to be connected to the Rosemount Connection Head or Dual Entry Connection Head enclosure. The Adapter style sensors can also be connected to a separate enclosure or provided as a standalone for connection to a suitably rated Ex db or Ex tb enclosure.

The Temperature Sensor, Model 85, is an Adapter style sensor in type of protection flameproof enclosures "d". It can be connected to a Rosemount temperature transmitter to form a complete assembly, connected to a separate enclosure or provided as a standalone for connection to a suitably rated Ex db enclosure.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

Type designation

644	**H**	**A**	**...**
I	II	III	Variants

Designation	Explanation	Value	Explanation
I	Model	644	Temperature Transmitter
II	Transmitter Type	H	Head Mount – Single Sensor
		S	Head Mount – Dual Sensor
		F	Field Mount – Single Sensor
		D	Field Mount – Dual Sensor
III	Transmitter Output	A	4-20 HART
		F	Foundation Fieldbus
		W	Profibus

Variants

Enclosure	D1	Dual Compartment, 2 Entries, M20x1.5, Aluminum
	D2	Dual Compartment, 2 Entries, 1/2NPT, Aluminum
	J1	Universal Head, 3 Entries, M20x1.5, Aluminum
	J2	Universal Head, 3 Entries, 1/2NPT, Aluminum
	J3	Universal Head, 3 Entries, M20x1.5, SST
	J4	Universal Head, 3 Entries, 1/2NPT, SST
	J5	Universal Head, M20x1.5, Aluminum with SST pipe bracket
	J6	Universal Head, 1/2NPT, Aluminum with SST pipe bracket
	J7	Universal Head, M20x1.5, SST with SST pipe bracket
	J8	Universal Head, 1/2NPT, SST with SST pipe bracket
	R1	Rosemount Connection Head, M20x1.5, Aluminum
	R2	Rosemount Connection Head, 1/2NPT, Aluminum
	R3	Rosemount Connection Head, M20x1.5, SST
	R4	Rosemount Connection Head, 1/2NPT, SST
LCD Display	M4	LCD Meter with Local Operator Interface
	M5	LCD Meter
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

3144P A …
I II Variants

Designation	Explanation	Value	Explanation
I	Model	3144P	Temperature Transmitter
II	Transmitter Output	A F	4-20 HART Foundation Fieldbus

Variants

Enclosure	D1 D2 D5 D6 D9 D0	Field Mount, Dual Compartment, Al, ½-14NPT Field Mount, Dual Compartment, Al, M20x1.5 Field Mount, Dual Compartment, SST, ½-14NPT Field Mount, Dual Compartment, SST, M20x1.5 Field Mount, Dual Compartment, Al ULC, ½-14NPT Field Mount, Dual Compartment, Al ULC, M20x1.5
LCD Display	M5	LCD Meter
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

148 H N …
I II III Variants

Designation	Explanation	Value	Explanation
I	Model	148	Temperature Transmitter
II	Transmitter Type	H	DIN Head Mount
III	Transmitter Output	N	Analog Output

Variants

Enclosure	A G U H	Rosemount Connection Head, Aluminum Rosemount Connection Head, SST Universal Connection Head, 2 Entries, Aluminum Universal Connection Head, 2 Entries, SST
Conduit Entry Size	1 2	M20x1.5 1/2NPT
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

248	**H**	**A**	**...**
I	II	III	Variants

Designation	Explanation	Value	Explanation
I	Model	248	Temperature Transmitter
II	Transmitter Type	H	DIN Head Mount
III	Transmitter Output	A W	4-20 HART Profibus

Variants

Enclosure	A G U H J K	Rosemount Connection Head, Aluminum Rosemount Connection Head, SST Universal Connection Head, 2 Entries, Aluminum Universal Connection Head, 2 Entries, SST Universal Connection Head, 3 Entries, Aluminum Universal Connection Head, 3 Entries, SST
Conduit Entry Size	1 2	M20x1.5 ½NPT
LCD Display	M5	LCD Display
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

214C ...
I Variants

Designation	Explanation	Value	Explanation
I	Model	214C	Temperature Sensor

Variants

Sensor Sheath Material	SM	321 SST
	AK	Alloy 600
	SB	316L
	SS	316 SST
Mounting Style	SL	Spring Loaded Standard Adapter
	SW	Spring Loaded with Contact Indicator
	WA	Welded Standard Adapter
	DF	DIN Style without terminal block
	DT	DIN Style with terminal block
Enclosure	AR1	Rosemount Connection Head – Aluminum
	AR2	Rosemount Connection Head w/Display Cover – Aluminum
	SR1	Rosemount Connection Head – SST
	SR2	Rosemount Connection Head w/Display Cover – SST
	AD1	Dual Entry – Aluminum
	SD1	Dual Entry – SST
	AT1	Aluminum with Terminal Strip
	AJ1	Universal Junction Box, 3 entries – Aluminum
	AJ2	Universal Junction Box w/Display Cover, 3 entries – Aluminum
	Blank	No Enclosure
Conduit Entry	C1	1/2NPT
	C2	M20x1.5
	C3	3/4NPT
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

65 …
I Variants

Designation	Explanation	Value	Explanation
I	Model	65	Temperature Sensor

Variants

Enclosure	C	Rosemount Connection Head, Aluminum, M20x1.5
	D	Rosemount Connection Head, Aluminum, 1/2NPT
	1	Rosemount Connection Head, w/Display Cover, Aluminum, M20x1.5
	2	Rosemount Connection Head, w/Display Cover, Aluminum, 1/2NPT
	G	Rosemount Connection Head, SST, M20x1.5
	H	Rosemount Connection Head, SST, 1/2NPT
	3	Rosemount Connection Head, w/Display Cover, SST, M20x1.5
	4	Rosemount Connection Head, w/Display Cover, SST, 1/2NPT
	7	Dual Entry Connection Head, Aluminum, 3/4NPT
	8	Dual Entry Connection Head, Aluminum, M20x1.5
	9	Dual Entry Connection Head, Aluminum, 1/2NPT
	K	Dual Entry Connection Head, SST, 3/4NPT
	R	Dual Entry Connection Head, SST, M20x1.5
	W	Dual Entry Connection Head, SST, 1/2NPT
	N	No Connection Head
Mounting Style	0,1,2,4	DIN Style
	3	Spring Loaded Adapter
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

85 **...**
I Variants

Designation	Explanation	Value	Explanation
I	Model	85	Temperature Sensor

Variants

Enclosure	C	Rosemount Connection Head, Aluminum, M20x1.5
	D	Rosemount Connection Head, Aluminum, 1/2NPT
	1	Rosemount Connection Head, w/Display Cover, Aluminum, M20x1.5
	2	Rosemount Connection Head, w/Display Cover, Aluminum, 1/2NPT
	G	Rosemount Connection Head, SST, M20x1.5
	H	Rosemount Connection Head, SST, 1/2NPT
	3	Rosemount Connection Head, w/Display Cover, SST, M20x1.5
	4	Rosemount Connection Head, w/Display Cover, SST, 1/2NPT
	N	No Connection Head
Mounting Style	3	Spring Loaded Adapter
	5	Spring Loaded Adapter with Terminal Block
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

185 ...
I Variants

Designation	Explanation	Value	Explanation
I	Model	185	Temperature Sensor

Variants

Enclosure	C	Rosemount Connection Head, Aluminum, M20x1.5
	D	Rosemount Connection Head, Aluminum, 1/2NPT
	1	Rosemount Connection Head, w/Display Cover, Aluminum, M20x1.5
	2	Rosemount Connection Head, w/Display Cover, Aluminum, 1/2NPT
	G	Rosemount Connection Head, SST, M20x1.5
	H	Rosemount Connection Head, SST, 1/2NPT
	3	Rosemount Connection Head, w/Display Cover, SST, M20x1.5
	4	Rosemount Connection Head, w/Display Cover, SST, 1/2NPT
	7	Dual Entry Connection Head, Aluminum, 3/4NPT
	8	Dual Entry Connection Head, Aluminum, M20x1.5
	9	Dual Entry Connection Head, Aluminum, 1/2NPT
	K	Dual Entry Connection Head, SST, 3/4NPT
	R	Dual Entry Connection Head, SST, M20x1.5
	W	Dual Entry Connection Head, SST, 1/2NPT
	N	No Connection Head
Mounting Style	0,1,2,4	DIN Style
	3	Spring Loaded Adapter
Assembled	XA	Process Ready Assembly of Transmitter and Sensor
Non-standard paint	Custom	Condition as listed in certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate		

Thermal data for all transmitter types

The relation between process temperature at sensor connection, ambient temperature and temperature class / maximum surface temperature “T” is as follows:

Process temperature range at sensor connection[1] [°C]	**Ambient temperature range [°C]**	**Temperature class / Maximum surface temperature “T”**
-60 to +70	-60 to +70	T6
-60 to +80	-60 to +80	T5…T1
-60 to +80	-60 to +80	T130 °C
[1]Sensor connection is where the sensor threads into the transmitter or junction box housing		

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

Thermal data for Adapter Style sensor types

The relation between process temperature, ambient temperature and temperature class / maximum surface temperature "T" is as follows:

Process temperature range [°C][1]	Ambient temperature range [°C][1]	Temperature class / Maximum surface temperature "T"
-60 to +80	-60 to +80	T6
-60 to +95	-60 to +80	T5
-60 to +130	-60 to +80	T4
-60 to +195	-60 to +80	T3
-60 to +290	-60 to +80	T2
-60 to +440	-60 to +80	T1
-60 to +100	-60 to +80	T130 °C

[1]Min. process temperature and min. ambient temperature is limited to -50 °C for the following models:

- Model 214C when enclosure designation "AD1" or "SD1" is selected
- Models 65 and 185 when enclosure designation "7", "8", "9", "K", "R", or "W" is selected

Thermal data for DIN Style sensor types

The relation between process temperature, ambient temperature and temperature class / maximum surface temperature "T" is as follows:

Process temperature range [°C][1]	Ambient temperature range [°C][1]	Temperature class / Maximum surface temperature "T"
-200 to +80	-60 to +80	T6
-200 to +95	-60 to +80	T5
-200 to +130	-60 to +80	T4
-200 to +195	-60 to +80	T3
-200 to +290	-60 to +80	T2
-200 to +440	-60 to +80	T1
-200 to +100	-60 to +80	T130 °C

[1]Min. process temperature and min. ambient temperature is limited to -50 °C for the following models:

- Model 214C when enclosure designation "AD1" or "SD1" is selected
- Models 65 and 185 when enclosure designation "7", "8", "9", "K", "R", or "W" is selected

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

Electrical data

Temperature Transmitters

Power supply (for all transmitter types): 12 – 42.4 Vdc, 1 W
Output (for all transmitter types): 4 – 20 mA with digital HART or a fieldbus signal

Temperature Sensors

35 Vdc, 750 mW

Installation instructions

The manufacturers instructions shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR19.0050/05.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

(17) **Specific conditions of use**

General

Flameproof joints are not intended for repair.

Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

See instructions for relation between process temperature, ambient temperature and temperature class / maximum surface temperature "T".

Model 214C Temperature Sensor

When provided on their own, the adapter style sensors must be assembled to a suitable Ex db or Ex tb enclosure. When assembled to an Ex db enclosure, the free internal volume shall not be greater than 650 cm^3.

The spring loaded adapter style sensors and DIN style sensors must be installed in a thermowell to maintain Ex tb protection.

The contact indicating adapter style sensor does not meet the requirements for type of protection "tb".

Guard DIN sensors against impacts greater than 4J.

Model 65 and 185 Temperature Sensors

When provided on their own, the adapter style sensors must be assembled to a suitable Ex db or Ex tb enclosure. When assembled to an Ex db enclosure, the free internal volume shall not be greater than 650 cm^3.

The spring loaded adapter style sensors and DIN style sensors must be installed in a thermowell to maintain Ex tb protection.

Guard DIN sensors against impacts greater than 4J.

Model 85 Temperature Sensor

When provided on their own, the adapter style sensors must be assembled to a suitable Ex db enclosure with a free internal volume no greater than 650 cm^3.

Model 644, 148 and 248 Temperature Transmitters with "XA" designation

The spring loaded adapter style sensors and DIN style sensors must be installed in a thermowell to maintain Ex tb protection.

Guard DIN sensors against impacts greater than 4J.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 19ATEX0076X** Issue No. **5**

Specific conditions of use (continued)

Model 3144P Temperature Transmitter with "XA" designation

The spring loaded adapter style sensors must be installed in a thermowell to maintain Ex tb protection.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR19.0050/05.

EU-Konformitätserklärung
EU Declaration of Conformity

Dokument Nr.
Document No. 11603046.03

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte
We declare under our sole responsibility that the CE marked products

Typenbezeichnung
Type Designation

A5550 + option ATEX, A5551 + option ATEX
A5550 + option ATEX, A5551 + option ATEX
A5525 + option ATEX
R5502 + option ATEX, R5503 + option ATEX
R5526 + option ATEX
S5550 + option ATEX, S5551 + option ATEX

Beschreibung
Description

Bimetall-Thermometer
Bimetal thermometer

gemäß gültigem Datenblatt
according to the valid data sheet TM55.01

mit den nachfolgenden relevanten Harmonisierungsvorschriften der Union übereinstimmen
are in conformity with the following relevant Union harmonisation legislation

Angewandte harmonisierte Normen
Applied harmonised standards

2014/34/EU	Explosionsschutz (ATEX) (1) *Explosion protection (ATEX)* (1)	EN ISO 80079-36:2016 EN ISO 80079-37:2016

II 2G Ex h IIC T6...T1 Gb X
II 2D Ex h IIIC T85°C...T450°C Db X

(1) Konformitätsbewertungsverfahren „interne Fertigungskontrolle". Die Dokumentation ist hinterlegt bei benannter Stelle TÜV NORD CERT GmbH, (Reg.-Nr. 0044), Aktennummer 8000550764.
Conformity assessment procedure "Internal Control of Production". The Documentation is deposited at notified body TÜV NORD CERT GmbH, Essen (Reg.-No. 0044), reference number 8000550764.

Unterzeichnet für und im Namen von / *Signed for and on behalf of*

WIKA Alexander Wiegand SE & Co. KG

Klingenberg, 2021-10-11

P. Koll, Vice President
Division Gauges (GA)

M. Lubomski, Head of Quality Management
Division Gauges (GA)

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Kommanditgesellschaft: Sitz Klingenberg – Amtsgericht Aschaffenburg HRA 1819

Komplementärin:
WIKA International SE - Sitz Klingenberg - Amtsgericht Aschaffenburg HRB 10505
Vorstand: Alexander Wiegand
Vorsitzender des Aufsichtsrats: Prof. Dr. Roderich C. Thümmel

1 TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU**

3 **Type Examination Certificate No:** **FM22ATEX0011X**

4 **Equipment or protective system: (Type Reference and Name)** **HYGROPRO II Series Moisture Transmitter**

5 **Name of Applicant:** **Panametrics LLC**

6 **Address of Applicant:** **1100 Technology Park Drive**
Billerica, MA 01821
USA

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

8 FM Approvals Europe Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR461736 dated 1st November 2022

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-11:2012 and EN 60529:1991:+A1:2000:+A2:2013

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

II 3 G Ex ic IIC T4 Gc -20˚C ≤ Ta ≤ +60˚C

Martin Crowe
Certification Manager, FM Approvals Europe Ltd.

Issue date: 02nd November 2022

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals Europe Limited, One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmapprovals.com www.fmapprovals.com

SCHEDULE

to Type Examination Certificate No. FM22ATEX0011X

13 **Description of Equipment or Protective System:**

The HYGROPRO II Series is a 4- wire loop-powered moisture transmitter, which is designed to measure humidity, temperature and pressure with a calibrated, removeable transducer element or probe. In addition to the analog output, the equipment also provides digital data by way of HART (on the analog output) and an independent RS485 output.

The equipment is housed within a plated, zinc alloy housing. The face of this metallic enclosure features a UV resistant silicone keypad and a polymeric window for viewing the internal LCD display.

The equipment is designed to operate over an ambient temperature range of -20˚C ≤Ta ≤+60˚C and from a nominal supply of 12 to 28Vdc and 25mA. The process temperature range is also -20˚C to +60˚C and it is isolated from the equipment using a single 316L stainless steel process sealing device based on a glass-to metal straight ¾"-16 threaded feedthrough. The enclosure has been evaluated for IP66/67. The equipment is designed with the following parameters:

Energy Limitation Parameters:
Loop Supply: Ui = 28 V, Ii = 100 mA, P_i = 700 mW, C_i = 0 µF, L_i = 0 uH.
RS485: Ui = 4 V, Ii = 250mA, P_i = 250mW, C_i = 0 µF, L_i = 0 uH.

14 **Specific Conditions of Use:**

1. *The Product shall be supplied from a resistively limited barrier or associated apparatus.*
2. *When the manufacturer of the equipment has not identified the type of protection to be used for installation on the label, the user shall, on installation, mark the label with the type of protection used. Once the type of protection has been marked it shall not be changed.*

15 **Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 **Test and Assessment Procedure and Conditions:**

This Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17 **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by FM Approvals Europe Ltd.

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals Europe Limited, One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmapprovals.com www.fmapprovals.com

SCHEDULE

to Type Examination Certificate No. FM22ATEX0011X

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
02nd November 2022	Original Issue.

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals Europe Limited, One Georges Quay Plaza, Dublin. Ireland. D02 E440
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Blueprint Report

Panametrics LLC (1000000179)

Class No 3610

Original Project I.D. 461736

Certificate I.D. FM22ATEX0011X

Drawing No.	Revision Level	Drawing Title	Last Report
136m2871	B	DISPLAY HEAD,2.7 X1.4 DISP, 6BUTTON, ASSY	PR461736
139m0185	C	HYGROPRO II, IS, PROBE,PRESS & SEAL, ASSY	PR461736
144m7135	D	MOUNT .75-16,1.5 OD X 2 LG, 8POS-GTM	PR461736
152m9300	B	HYGROPRO II, IS, ASSEMBLY WITH PROBE	PR461736
152m9733	A	HYGROPRO II,IS,PROBE, FUNCTIONAL, ASSY	PR461736
170M3541	-	IS Block Diagram HygroPro	PR461736
752-605	A	HYGROPRO II, IS, CERTIFICATION (1)	PR461736
752-607	-	HYGROPRO II INSTALLATION CONTROL DRAWING	PR461736
CSS-0019	A	HygroPro Safety Manual	PR461736

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[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment and Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 12 ATEX 0784** **Issue 2**

[4] Equipment: **Solenoid valves and Electromagnetic devices**

Series: **L, C, D, E, F, G, VL, VC, VD, VE, VF, VG, H, VH** ($-20 \leq T_{amb} \leq +xx$)

Manufacturer: **NADI S.r.l.**

[6] Address: Via Risorgimento, 10 – 20017 Mazzo di Rho (MI) – Italy

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.
The examination and test results are recorded in the confidential Report N° EPT.19.REL.01/1319026

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the harmonized standards :

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014,
EN 60079-26:2015, EN ISO 80079-36:2016, EN ISO 80079-37:2016
and with the standard **EN 60079-0:2018**

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the symbols Ⓔx **II 1G/2GD** and at least one of the following strings:

Ex h IIC (or IIB+H2 *) TX Ga **$-20°C \leq T_{amb} \leq +xx°C$**
Ex db IIC (or IIB+H2 *) TX Ga/Gb
Ex tb IIIC TX°C Db
* See the equipment description for more details

Place and date of issue:
Torino, 2019-08-28

CE

Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director

Eurofins Product Testing Italy
eurofins
Notified Body N. 0477

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

[15] **Equipment description**

The solenoid valves and electromagnetic devices are divided into the following series, identifiable through the first alphabetical letters of the product code:
Solenoid valves: **L, C, D, E, F, G, VL, VC, VD, VE, VF, VG**
Electromagnetic devices series: **H, VH**
They are used to control the flow of flammable and/or inert gas or liquids in a potential explosive atmosphere.

The solenoid valve is composed of a flameproof enclosure (which contains the electromagnetic device) and a valve.
The electromagnetic device is composed of a flameproof enclosure (which contains the solenoid).

The flameproof enclosure is made of light alloy GAlSi4.5MnMg colored anodized (colored) or painted (if painted the paint used has a maximum thickness of 200 µm) and silicone gaskets.
The body of the valve can be made of brass UNI 5705/ UNI 4893, nickel-plated brass UNI 5705/ UNI 4893, bronze UNI 7013 (only for gas group IIB+H2), stainless steel AISI 303/AISI 304/AISI 316/AISI 316L, Al light alloys (not permitted for inflammable gas or liquids), or Carbon steel while the seals materials can be NBR, viton, urepan, PTFE, rulon, metallic, neoprene, EPDM, HNBR, kalrez or special.

The equipment is suitable for groups IIC, IIB+H2 and group IIIC. It has respectively the type of protection "Ex db", "Ex h" and "Ex tb".

Electrical characteristics

Maximum voltage: from 6 V to 400 Vdc or 400 Vac
Rated frequency: 50 or 60 Hz
Maximum power dissipation: 11W or 26W

Degree of protection: IP 67 (1m of depth 40 min, according to EN 60079-0 and IEC 60529)
Ambient temperature. from -20 to +40 °C (or from -20°C to +60 °C)

The temperature class and maximum surface temperature depends on the ambient temperature and on the nominal power of the solenoid valve coil according to the following table:

Maximum ambient temperature	P≤11W	P≤26W
+40°C	T6 and T65°C	T5 and T87°C
+60°C	T5 and T85°C	T4 and T107°C

Cable entries

The cable entry devices used on the enclosures must be suitably ATEX certified. They must be chosen according to the type of protection, the type of thread, the degree of protection of the equipment and with suitable operative temperatures as detailed in the following table.

Range of ambient temperature of the equipment	Operative temperature for cable glands
From -20°C to +40 °C	From -20°C to +65 °C
From -20°C to +60 °C	From -20°C to +85 °C

Screws
None

[13] [14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

The solenoid valves are identified by the code:	①	00÷99	②	00÷99	③	④	⑤	⑥
The electromagnetic devices are identified by the code:	H	②	0000÷9999	⑤	⑥			
While customized codes are identified by the code:	V	①	②	0000÷9999		④	⑤	⑥

Where:

DIGITS	①	②	③	④	⑤	⑥

Device type

L	2 way solenoid valves
C	3 way solenoid valves
D	5 way solenoid valve
E	2 way manual reset sol. valves
F	3 way manual reset sol. valves
G	5 way manual reset sol. valves
H	Electromagnetic devices

Body material

T	Brass UNI-5705/ UNI-4893
N	Nickel plated brass UNI5703 / UNI4893
B	Bronze UNI 7013 (Gas group IIB+H2)
H	Stainless steel AISI 303 UNI -X10CrNiS1810 AISI 304 UNI -X10CrNiS1810
I	Stainless steel AISI 316 UNI -X5CrNiMo1712 AISI315L UNI –X2CrNiMo1712
L	Al Light Alloys
C	Carbon steel

Connection types
(See safety instructions document)

Seals material

0	NBR (Buna N)
1	VITON
2	UREPAN
3	PTFE o RULON
4	Metallic
5	Neoprene
6	EPDM
7	HNBR
8	KALREZ
9	SPECIAL

Protection degree

C	Ex-db h IIC IP67 Ex tb IIIC

Options

	No option
W	Stable Manual Operator
X	Instable Manual Operator
Y	Transmission pin
/Ap	High pressure version
/SG	Degreasing for O2
/LT	ATEX Housing for Tamb -60°C
/C	Antinoise Condenser
/V	Varistor (spikes suppressor)
/LC	Low consumption coil
/SF	Silicone Lubricants free

Numbers "**00÷99**" and "**0000÷9999**" aren't relevant for the types of protection, details contained in manufacturer's documents.

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

Warning label
After de-energizing delay 15 min before opening.
Joints cannot be repaired

Routine tests
None

[16] **Assessment Report n° EPT.19.REL.01/1319026**
This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this Certificate; performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition of use**
Not present

[18] **Essential Health and Safety Requirements**
Assured by compliance with harmonized standards.

[19] **Descriptive documents**
The equipment object of this Certificate is described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev	Date
Safety instructions	3860	5	2019/02
Drawing	3870	1	2019/02/19
Drawing	3870A	1	2019/02/19
Drawing	3870B	0	2003/01/09
Marking plate Atex	3880	3	2019/02/19

[20] **Terms and conditions**
The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.
The following conditions may render this certificate invalid:
- changes in the design or construction of the product;
- changes or amendments to the 2014/34/EU Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **Certificate History**
This Certificate is at its first issue and replace the EC-TYPE EXAMINATION CERTIFICATE n. EUM1 12 ATEX 0784 and its Supplement n. 1.

Issue	Description	Issue date
0	First issue	2012-09-07
1	Change of o-rings material and standard update	2015-06-06
2	Standard update (EN 60079-0, EN 60079-26, EN ISO 80079-36, EN ISO 80079-37)	2019-08-28

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible

End of Certificate

TE.MA. S.r.l
21020 Ternate (Va) - Via Baranchina, 4
Tel. 0332/960787 r.a. - Fax. 0332/961089
E.Mail: info@temavasconi.com
Web-site: www.temavasconi.com
P.I. 03316460967

Quality System Certified UNI EN ISO 9001:2015

DICHIARAZIONE CE DI CONFORMITÀ*/CE CONFORMITY DECLARATION*

Noi: **TE.MA. Srl**
We: **Via Baranchina, 4**
21020 Ternate - Varese

Dichiariamo sotto la nostra responsabilità che:
Declare under our own responsability that:

- TMS8 SERIES TERMOSTATI IN ESECUZIONE A SICUREZZA INTRINSECA
  Intrinsically safe temperature switches TMS8 series
- PMS8 SERIES PRESSOSTATI IN ESECUZIONE A SICUREZZA INTRINSECA
  Intrinsically safe pressure switches PMS8 series
- DPMS8 SERIES PRESSOSTATI DIFFERENZIALI IN ESECUZIONE A SICUREZZA INTRINSECA
  Intrinsically safe differential pressure switches DPMS8 series

descritti in questa dichiarazione sono conformi sono:
indicated in this declaration, are:
"DISPOSITIVI SEMPLICI" secondo la norma EN 60079-11:2012 (Costruzioni elettriche per atmosfere potenzialmente esplosive. Modo di protezione a sicurezza intrinseca "i"), paragrafo 5.7.
"SIMPLE APPARATUS" according to the EN 60079-11: 2012 Standard (Electrical apparatus for potentially explosive atmospheres - Intrinsic safety "i"), clause 5.7

La conformità è dimostrata dall'osservanza delle seguenti norme armonizzate
Confomity is obtained according to the following standards: EN IEC 60079-0: 2018; EN 60079-11 :2012

Marcatura */ Marking :*
Ex ia IIC T6 T4 Ga (GAS) / Ex ia IIIC T85°C T135°C Da (DUST)
T6/T85°C=temperatura ambiente (ambient temperature) -40°C+55°C
T4/T135°C=temperatura ambiente (ambient temperature) -40°C+90°C

Electrical characteristics: Ui = 30 V, Ii = 100mA, Ci =0, Li =0

CONDIZIONI ADDIZIONALI / *ADDITIONAL CONDITIONS*

Questi dispositivi non contengono proprie sorgenti efficaci in grado di provocare un'esplosione; essi possono essere utilizzati in ambienti con pericolo di esplosione con presenza di gas (gruppi IIA, IIB e IIC) e polveri combustibili (IIA, IIIB, IIC).
These devices do not contain own ignition sources which may cause an explosion; they can be used in hazardous area with risk of explosion with presence of gas (group IIA, IIB, IIC) and combustible dust (IIIA, IIIB, IIIC)

I termostati della serie TMS8 in esecuzione Ex ia devono essere alimentati mediante apparecchiature associate certificate in conformità alle norme EN 60079-0 e EN-60079-11 che rispettino i seguenti limiti: Uo = 30 V, Io = 100 mA, Po = 750 mW

Ex ia thermal switches TMS8 series must be supplied by certified associated apparatus according to EN 60079-0 and EN-60079-11 with the following electrical characteristics: Uo = 30 V, Io = 100 mA, Po = 750 mW

Notifica sistema qualità e Organismo Notificato:
Qualità system notification and Notified body nr.: ***INERIS 19ATEXQ403 (Ex Notified Body n. 0080)***

Ternate, 12.07.2023

TE.MA Srl
Fabrizio Vasconi