1 E	U-TYPE EXAMINA	
2	Equipment or Protective systems intend	led for use in Potentially
-	Explosive Atmospheres - Directive 2014	/34/EU
3	EU-Type Examination Certificate No:	FM16ATEX0001X
4	Equipment or protective system: (Type Reference and Name)	Proservo NMS80, NMS81 and NMS83
5	Name of Applicant:	Endress+Hauser Yamanashi Co., Ltd.
6	Address of Applicant:	862-1 Mitsukunugi Sakaigawa-cho Fuefuki-shi Yamanashi-Ken 406-0846 Japan
7	This equipment or protective system and an this certificate and documents therein references the system of the sys	ny acceptable variation thereto is specified in the schedule to red to.
8	FM Approvals Europe Ltd, notified body 2014/34/EU of 26 February 2014, certifie Essential Health and Safety Requirements for use in potentially explosive atmosphere:	number 2809 in accordance with Article 17 of Directive is that this equipment has been found to comply with the relating to the design and construction of equipment intended is given in Annex II to the Directive.
	The examination and test results are record	ded in confidential report number:
	305774	9 dated 2 nd August 2016
9	Compliance with the Essential Health and S item 15 of the schedule to this certifica documents:	Safety Requirements, with the exception of those identified in te, has been assessed by compliance with the following
	EN 60079-0:2012+A11:20 EN 60079-26:2015 a	013, EN 60079-1:2014, EN 60079-11:2012, nd EN 60529:1991+A1:2000+A2:2013
10	If the sign 'X' is placed after the certificate conditions of use specified in the schedule	number, it indicates that the equipment is subject to specific to this certificate.
11	This EU-Type Examination certificate relate equipment or protective system in accorda Directive apply to the manufacturing process are not covered by this certificate.	es only to the design, examination and tests of the specified nce to the directive 2014/34/EU. Further requirements of the ss and supply of this equipment or protective system. These
12	The marking of the equipment or protective	system shall include:
5	II 1/2 G Ex db [ia Ga] IIC T6T1 Ga	a/Gb Ta*
10	Ta* - See Description Section below	for Ambient Temperature Ranges.
	Digitally signed by Richard Zammitt Div: cn=Richard Zammitt, Div: cn=Richard Zammitt, Div: cn=Richard Zammitt, Div: cn=Richard Zammitt, Europe Limited, email=richard.zammitt@f mapprovals.com, c=IE	ard Zammitt fication Manager, FM Approvals Europe Ltd. date: 04 th February 2020
TH	IIS CERTIFICATE MAY ONLY BE REPROD	UCED IN ITS ENTIRETY AND WITHOUT CHANGE
FM Ap T: +35	provals Europe Ltd. One Georges Quay Plaza, Dublin. 3 (0) 1761 4200 E-mail: <u>atex@fmapprovals.com</u> www.	Ireland. D02 E440 fmapprovals.com

F ATEX 020 (Mar/2019)





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13 Description of Equipment or Protective System:

General - The intelligent tank gauge Proservo NMS8x is designed for high accuracy liquid level measurement in storage and process applications. It is installed on a liquid storage tank which contains liquids such as petroleum, liquefied gases and other liquids used in the chemical industry.

The Proservo NMS8x is designed for the purpose of single or multi-task installations, covering a wide range of measurement functions. It is based on the principle of displaced measurement. A displacer is accurately positioned in the liquid medium using a stepper motor. The displacer is suspended on a measuring wire which is wound onto a finely grooved drum housing within the instrument. The drum is driven via coupling magnets which are completely separated by the drum housing.

Construction - The NMS8x assembly comprises a cover, display, electronics assembly, sensor assembly unit, tube housing, lock washer, drum housing, displacer, wire drum, bracket and a drum cover. The enclosure compartments, one being the electronics compartment and the other being the drum compartment. The electronics compartment is an explosionproof/flameproof enclosure which consists of a main body (Housing NMS), a cover with window (window cover) and a separation wall towards the drum housing. It is the separation wall which separates the explosionproof/flameproof enclosure from the drum compartment and its thickness is equal to or greater than 3 mm. The separation wall has no throughbore.

The wire drum is driven by magnet coupling. The power for the rotating electronics (detector circuit with inner magnet) is transmitted through a rotary transformer. NMS8x has no rotary mechanical contacts for power and signal, therefore no sparking by moving mechanical contacts.

The drum housing and tube housings are available in Aluminum and Stainless Steel. Seven cable entries [M20 X 1.5 6H] with an axial length greater than 15 mm are provided on the NMS housing. Terminals for protective earth connection and for potential equilibrium bonding are provided in both terminal compartments as well as outside the enclosure. The enclosure ingress protection rating is IP66, IP68.

Ratings – The Proservo NMS8x operates at 85-264Vac (28.8Volt-Amperes). Entity Parameters – refer to drawing XA01495G. The Temperature rating and ambient operating temperature range of the NMS8x with respect to the process temperature range is below:

Temperature Class	Ambient Temperature	Process Temperature (temperature of the displacer)
T1	-40°C ≤ Ta ≤ +60°C	$-253^{\circ}C \le T_{\text{process}} \le 450^{\circ}C$
T2	-40°C ≤ Ta ≤ +55°C	$-253^{\circ}C \le T_{\text{process}} \le 300^{\circ}C$
Т3	-40°C ≤ Ta ≤ +50°C	$-253^{\circ}C \le T_{\text{process}} \le 200^{\circ}C$
T4		$-253^{\circ}C \le T_{\text{process}} \le 135^{\circ}C$
T5		$-253^{\circ}C \le T_{\text{process}} \le 100^{\circ}C$
T6		$-253^{\circ}C \le T_{\text{process}} \le 85^{\circ}C$

Proservo NMS80-aabcddeeffgghijjkkkllmmmnnn + (options)

aa	Approval:	
	BC - ATEX II 1/2 G Ex db [ia] IIC T6T1 Ga/Gb	
b	Terminal Type:	
	1 - Spring Terminals	
	2 - Screw Terminals	
	9 - Special version, TSP-no. to be spec. (not relevant for safety)	
С	Power Supply:	
	B - 85-264VAC, LCD + operation	

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	9YY - Special version, TSP-no, to be spec.	
11	Process Sealing:	
	A1 - HNBR -30°C150°C/ -22°F302°F	
	B1 - FKM GI T -40° C 200° C $/-40^{\circ}$ F 392° F	
	B2 - FEKM GIT -20°C 200°C / -4° F 392°E	
	$C1 = CR Chloropren -30^{\circ}C = 80^{\circ}C / -40^{\circ}F = 176^{\circ}F$	
	D1 = DTEE (wire drum EKM) = 100° C = 150° C/ = 148° E = 302° E	
	E1 = 1 He cluster (whe didn't (w)) = 100 C 130 C/ = 140 T 302 T 302 T 302 T	
	ET - VINQ SINCONE -40 C200 C/ -40 F392 F	
	Presses Campation:	
mmm Process Connection:		
	Any 3 characters combinations (not relevant for safety)	
nnn Accuracy, Weight + Measure Approval:		
	Any 3 characters combinations (not relevant for safety)	
(options)	Options: not relevant for safety	
_		
Proservo N	MS81-aabcddeeffgghijjkkkllmmmnnn + (options)	
aa	Approval:	
ļ	BC - ATEX II 1/2 G Ex db [ia] IIC T6T1 Ga/Gb	
b	Terminal Type:	
	1 - Spring Terminals	
	2 - Screw Terminals	
	9 - Special version, TSP-no. to be spec. (not relevant for safety)	
С	Power Supply:	
	B - 85-264VAC, LCD + operation	
	D - 24-62VAC/DC, LCD + operation	
dd	Primary Output:	
	A1 - Modbus – RS485	
	B1 - V1	
	C1 - WM550	
	E1 - 4-20mA HART Exd	
	G1 - Wireless	
	H1 - 4-20mA HART Ex i	
	Y9 - Special version, TSP-no, to be spec, (not relevant for safety)	
66	Secondary I/O Analog:	
00	A1 - Fx d - 1 x 4-20mA HART: 1 x RTD Input	
	A2 = Fx d = 2x 4-20mA HART; 2x RTD Input	
	$R_1 = F_1 = 1 \times 4^{-20mA} HART 1 \times RTD Input$	
	$B_{2}^{2} = E_{x}i - 2x A_{2}0mA HAPT; 2x PTD Input$	
	$C_2 = E_X i = 2 \times 4 - 20 \text{ mA} \text{ HAPT} \cdot 2 \times \text{ DTD Input } 4 \times \text{ Ex d} 4 20 \text{ mA} \text{ HAPT}$	
	V0 Propaged for I/O Appleg PTD input	
	V0 - Frepared for I/O Analog RTD input	
£5	Secondary VO Digital Ex du	
п	Secondary I/O Digital EX d:	
	A1 - 2 X Telay + 2 X module discrete	
	$A_2 = 4 \times \text{relay} + 4 \times \text{module discrete}$	
	A3 - 0 X relay + 0 X module discrete	
	BI - WOODUS KS485	
	B2 - IVIODDUS RS485 + 2 x relay + 2 x module discrete	
	B3 - Modbus RS485 + 4 x relay + 4 x module discrete	
	E1 - W550	
	E2 - W550 + 2 x relay + 2 x module discrete	
1	E3 - W550 + 4 x relay + 4 x module discrete	
	X0 - Prepared for I/O digital Ex d	
	 X0 - Prepared for I/O digital Ex d Y9 - Special version, TSP-no. to be spec. (not relevant for safety) 	
gg	 X0 - Prepared for I/O digital Ex d Y9 - Special version, TSP-no. to be spec. (not relevant for safety) Housing: 	

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r		
	B2 - FFKM GLT -20°C200°C / -4°F392°F	
	C1 - CR Chloropren -30°C80°C / -40°F176°F	
	D1 - PTFE (wire drum FKM) -100°C150°C/ -148°F302°F	
	E1 - VMQ Silicone -40°C200°C/ -40°F392°F	
	YY - Special version, TSP-no. to be spec.	
mmm	Process Connection:	-
	Any 3 characters combinations (not relevant for safety)	
nnn	Accuracy, Weight + Measure Approval:	
	Any 3 characters combinations (not relevant for safety)	
(options)	Options: not relevant for safety	

14 Specific Conditions of Use:

- 1. For Ambient and Process Temperature Range refer to drawing XA01495G.
- 2. Flamepath joints are not for repair. Contact the manufacturer.
- 3. Use heat resisting cables rated $\ge 85^{\circ}$ C for Ta $> 50^{\circ}$ C.
- 4. Precautions shall be taken to minimize the risk from electrostatic discharge of non-metallic labels and isolated metal tags applied to the enclosure.

5. To maintain the ingress protection ratings (IP66/68), teflon tape or pipe dope is required for blanking plugs.

6. Ex d certified seals are required within 50mm (1.97inches) on all used housing entries.

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 EU-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 the Notified Body.

18 Certificate History

Details of the supplements to this certificate are described below:

	Date	Description
	03 rd August 2016	Original Issue.
	07 th September 2016	Supplement 1: Report reference: RR206287 dated 06 th September 2016. Description of change: Minor editorial corrections through the certificate
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to EU-Type Examination Certificate No. FM16ATEX0001X

Date	Description
11 th May 2018	Supplement 2: Report reference: RR213288 dated 01 st May 2018. Description of change: Documentaton update to include Stainless Steel Tube Housing for NMS83 and minor editorial corrections to the certificate.
13 th March 2019	Supplement 3: Description of the Change: Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.
07 th October 2019	Supplement 4: Report reference: RR220154 dated 04 th October 2019. Description of change: Update technical documents and update Temperature Class Table in technical documentation and this Certificate.
04 th February 2020	Supplement 5: Report Reference: –RR221788 dated 30 th January 2020. Description of the Change: Updated Label material and adhesive coating. Specific conditions of use updated.

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Blueprint Report

Endress+Hauser Yamanashi Co Ltd (1000004450)

Class No 3615 Original Project I.D. 3057749

Certificate I.D. FM16ATEX0001X

Drawing No.	Revision Level	Drawing Title	Last Report
		PrintedCircuitBoard(APP) Proservo ES	
960018101	10/11/2015	PSRV_ES_Magnetic_Rotary_Encoder	3057749
	10/11/00/15	AssemblyPlan(APP) A ProServo ES	
960018102	10/11/2015	PSRV_ES_SMS	3057749
060019102	10/11/2015	AssemblyPlan(APP) B ProServo ES	2057740
900010103	10/11/2013	Tank Gauging Proservo NMS8y	3037749
		uses Tank Gauging Platform (TGP)	
960018239	27/04/2016	modules	3057749
960016426	13/01/2015	Tank Gauging Platform (TGP) Transmission Code Listing TRC	3057749
960017763	03/07/2015	Overview NRF81 and NMS89/81/83	3057749
960017776	01/03/2016	Overview Displacer NMS8X	3057749
960017777	03/07/2015	Overview electrostatics NMS8X	3057749
960017842	04/08/2015	NMS80 external dimensions	3057749
960017847	04/08/2015	NMS81 external dimensions	3057749
960017849	03/07/2015	Zone separation wall thicknesses NMS8X	3057749
960017854	С	Technical Description Proservo NMS80/81/83	RR220154
960017875	04/08/2015	NMS81/83 external dimensions	3057749
960018037	D	Overview approved laser printed adhesive nameplate materials	RR221788
960018037	D	Overview approved laser printed adhesive nameplate materials	RR221788
960018037 960018097	D 10/11/2015	Overview approved laser printed adhesive nameplate materials AssemblyPlan(APP) A Proservo ES SMR_RT / Rotary Transformer Boar PrintedCircuitBoard (APP) Proservo ES SMS_RT / Rotary Transformer	RR221788 rd3057749
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