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EU-TYPE EXAMINATION CERTIFICATE

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX2219X** Issue: **0**

4 Equipment: Proline Promag 300/500
5 Applicant: Endress+Hauser Flowtec AG

6 Address: Endress+Hauser Flowtec AG Kaegenstrasse 7, CH-4153, Reinach BL, Switzerland

Endress+Hauser Flowtec AG, Cernay, France

Endress+Hauser Flowtec (India) Pvt. Ltd. Waluj, India Endress+Hauser Flowtec AG Div. U.S.A. Greenwood, USA Endress+Hauser Flowtec (China) Co. Ltd. Suzhou, P.R. China

Endress + Hauser Flowtec (Brazil) Fluxômetros Ltda., Estrada Muncipal Antônio Sesti, 600 A - Recreio Costa Verde – Itatiba / SP, CEP 13254 – 085 – Brazil

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

Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

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

EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

EN 60079-26:2015 EN 60079-15: 2010 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.
- 12 The marking of the equipment shall be as per the Certificate Annexe.

Project Number 70084415

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N Jones Certification Manager

Sira Certification Service

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX2219X Issue 0

13 **DESCRIPTION OF EQUIPMENT**

The Proline 300 / 500 is a platform used for flowmeters of type Proline Promag 300 and Proline Promag 500. All flowmeters are available in two versions, a compact version (Proline 300) and a remote version (Proline 500). The remote Proline 500 version is also available as an analog version where the sensor sends analog signals to the transmitter and a digital version where the sensor is connected by a digital circuit to the transmitter with additional electronics located at the sensor for assessment of the sensor signals.

For all versions of the Proline 300, an additional remote Display, e.g. DKX001, may be connected to the electronics.

Different electronics are used for the flowmeters where the sensor is installed in a Zone 1 or 2 location and where the transmitter can be installed in a safe area or Zone 1 or 2 locations. All versions of electronics are designed either with intrinsically safe IO's (Ex ia for Zone 1 or Ex ic for Zone 2) or with non-intrinsically safe IO's. A mix of type of protections, Ex i in combination with non-Ex i IO's is not allowed.

14 DESCRIPTIVE DOCUMENTS

14.1 **Drawings and Supporting Documentation**

Refer to Certificate Annexe.

14.3 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	19 July 2016	R70084415A	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 All equipment of the measurement system shall be included in the equipotential bonding. Along the intrinsically safe circuits potential equalization must exist.
- 15.2 The sensors may only be used for those process media, for which the wetted parts are known to be suitable
- 15.3 Plastic transmitter enclosures for the order codes

Proline Promag 8*5***-(BJ)*******A....,
Proline Promag 08*5***-(BJ)******A....,
Proline Promag 8*5*xx-(BJ) *******A....
shall be installed in an area of at least pollution degree 2

15.4 Equipment with the following order codes shall be installed using a transient protection not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.

For order code 'dd' = BN or BS

15.5 For remote versions of Promag flowmeters with a flat gasket within the sensor terminal box, the user shall ensure that flat cover seals are not bent into the seal surface before securing the cover. Seals that are not flat shall be replaced.

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16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG



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1.1

See Cover Sheet of IECEx Test Report CA/CSA/ExTR16.0031/00 for a full list of drawings covered by this issue.

1 Order Code

Proline Promag 300/500

Extended order code Proline Promag 300::

5a3bcc - ddeffghjlpstttuvww + #**#

O5a3bcc – ddeffghjlpstttuvwwyy + #**# for OEM-version

5x3bxx – ddeffghjlpww + #**# for replacement transmitter only

Extended order code Proline Promag 500::

5a5bcc – ddeffghijkmnopstttuvww + #**#

O5b5cdd – ddeffghijkmnopstttuvwwyy + ##** for OEM-version

5x5bxx – ddeffghijkmopqqww + ##** for replacement transmitter only

a = Type of sensor

H = Sensor Promag H P = Sensor Promag P W = Sensor Promag W

b = Generation

B = Generation of Flowmeter

cc = Size

any combination of number and/or letter up to size = DN3000

dd = Approval

BN

Proline Promag 300 (IECEx + ATEX):

BB = Ex db eb [ia] IIC $\overline{16...11}$ Gb

Ex tb IIIC T* Db

BD = Ex db [ia] IIC T6...T1 Gb

Ex th IIIC T* Dh

Proline Promag 500 (IECEx + ATEX):

BB = Ex db eb [ia] IIC T6...T4 Gb (transmitter) Ex eb ia IIC T6...T1 Gb (sensor)

Ex tb IIIC T** Db (transmitter + sensor)

BD = Ex db [ia] IIC T6...T1 Gb (transmitter) Ex eb ia IIC T6...T1 Gb (sensor)

Ex tb IIIC T** Db (transmitter + sensor)

BJ = [Ex ia] IIC (transmitter)

Ex eb ia IIC T6...T1 Gb (sensor) Ex tb IIIC T** Db (sensor)

= Ex ec [ia Ga] IIC T6...T1 Gc (transmitter)

Ex eb ia IIC T6...T1 Gb (sensor)
Ex tb IIIC T* Db (sensor)

Ex tb IIIC T* Db (sensor)
= Ex de [ia] IIC T6...T1 Gb (transmitter)

B7 = Ex de [ia] IIC T6...T1 Gb (transmitted Ex eb [ia] IIC Gb (sensor)

B8 = Ex d [ia] IIC T6...T1 Gb (transmitter) Ex eb [ia] IIC Gb (sensor)

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Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG



e = Power Supply

D = 24Vdc

E = 100-230 Vac

I = 100-230 Vac / 24 Vdc

X = sensor only

ff = Input / Output 1

BA = 4-20mA HART

BB = 4-20mA WHART CA = 4-20mA HART Ex i

CB = 4-20mA WHART Ex i

GA = Profibus PA

HA = Profibus PA Ex i

LA = Profibus DP

MA = Modbus RS485

NA = EtherNet/IP

RA = Profinet IO

SA = Foundation Fieldbus

TA = Foundation Fieldbus Ex i

XX = sensor only

g = Input / Output 2

A = without Input/Output 2

B = 4-20mA

C = 4-20mA Ex i

D = Configurable IO

E = Pulse/Frequency/Switch output

F = Pulse output phase-shifted

G = Pulse/Frequency/Switch output Ex i

H = Relay

I = 4-20mA input

J = Status input

X = sensor only

h = Input / Output 3

A = without Input/Output 3

B = 4-20 mA

C = 4-20mA Ex i

D = Configurable IO

E = Pulse/Frequency/Switch output

F = Pulse output phase-shifted

G = Pulse/Frequency/Switch output Ex i

H = Relay

I = 4-20mA input

J = Status input

X = sensor only

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Certificate Number: Sira 16ATEX2219X

Equipment: Proline Promag 300/500 **Endress+Hauser Flowtec AG Applicant:**



i = Input / Output 4 (Proline 500 only)

= without Input/Output 4

В = 4-20mAC = 4-20mA Ex i D = Configurable IO

Ε = Pulse/Frequency/Switch output F = Pulse output phase-shifted

G = Pulse/Frequency/Switch output Ex i

Н = Relav

Ι = 4-20mA input 1 = Status input Χ = sensor only

= Display / Operation j

any single number or letter

k = Integrated ISEM electronic (Proline 500 only)

= Digital = Analog

= Housing

any single number or letter

m = Transmitter Housing

any single number or letter

= Sensor Housing (Proline 500 only)

any single number or letter

= Cable Sensor Connection (Proline 500 only)

any single number or letter

= Cable Entry

any single number or letter

= Upgrade Kid qq

any double digits with combination of number or letter

= Liner material

any single number or letter

= Process connection ttt

any triple digits with combination of number or letter

= Electrode u

any number or letter

= Calibration

any single number or letter

= Customer version (one digit)

= Device Model (two digit) w = product version 1

уу any double digits with combination of number or letter

** = Option in two digits (none, two or multiple of two digits)

any combination of number and/or letter

#, + = Signs used as indicator for optional abbreviation of extended order code

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Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG



Promag Remote Transmitter and Remote Sensor:

 5^{*****} and 05^{*****} with order code dd = BB, BD, B7, B8 in combination with k = B:

Transmitter:

terminals 4, 5, 6, 7, 8, 32, 33, -> Uo = 26.6V, Io = 19.2mA, Po = 128mW,

34, 35, 36, 37 Lo = 20mH, Co = 94nF

and

Uo = 13.3V, Io = 39.2mA, Po = 131mW,

Lo = 20mH, Co = 94nF

terminals 41, 42 $-> U_N = 60V$, $I_N = 90mA$

Sensor:

terminals 4, 5, 6, 7, 8, 32, 33, \rightarrow Ui = 26.6V, Ii = n.a., Pi = n.a., Li = 0, Ci = 0

34, 35, 36, 37

terminals 41, 42 $-> U_N = 60V$, $I_N = 90mA$

Interconnection of circuit connected to terminals 4, 5, 6, 7, 8, 37, 36 for use of a cable with a maximum length of 100m is allowed when using a cable which has the following parameters:

Cable inductance ≤ 1 mH/km

Cable capacitance ≤ 1 µF/km

5***** and 05***** with order code dd = BJ, BN in combination with k = A:

Transmitter:

terminals 61, 62 $-> U_N = 35V$ terminals 63, 64 $-> U_N = 3.3V$

Sensor:

terminals 61, 62 $-> U_N = 35V$ terminals 63, 64 $-> U_N = 3.3V$

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Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG



2 Parameters

2.1 Electrical Parameters

Power Supply			
Order Code	terminal no.	values	
e =			
D 1)	No. 1(L+/L), 2(L-/N)	$U_N = 19.228.8V_{DC}$	
		U _M = 250Vac	
E 1)	No. 1(L+/L), 2(L-/N)	U _N = 85264V _{AC}	
		$U_{M} = 250 \text{Vac}$	
I 2)	No. 1(L+/L), 2(L-/N)	U _N = 19.228.8V _{DC} /85264V _{AC}	
		$U_{M} = 250 \text{ V}$	

1) applicable for products with approval code dd = BA, BB, BC, BD, B7, B8

2) applicable for products with approval code dd = BI, BJ, BM, BN

Input/Output 1			
Order Code ff =	terminal no.	values	
BA, BB, MA	No. 26, 27	$U_N = 30V_{DC}$ $U_M = 250V_{AC}$	
LA, GA, SA	No. 26, 27	$U_N = 32V_{DC}$ $U_M = 250Vac$	
CA, CB	No. 26, 27	$\begin{array}{lll} U_i &= 30V \\ I_i &= 100 \text{mA} \\ P_i &= 1.25W \\ L_i &= 0 \\ C_i &= 0 \end{array}$	
НА, ТА	No. 26, 27	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
NA, RA	IO1 / RJ45	$\begin{array}{rcl} U_N &= 30 V_{DC} \\ U_M &= 250 Vac \end{array}$	

- 1) applicable for products with approval code dd = BA, BB, BC, BD, B7, B8
- 2) applicable for products with approval code dd = BM, BN

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Input/Output 2		
Order Code	terminal no.	values
g =		
C, G	No. 24, 25	$\begin{array}{lll} U_i &= 30V \\ I_i &= 100 \text{mA} \\ P_i &= 1.25W \\ L_i &= 0 \\ C_i &= 0 \end{array}$
B, D, E, F, I, J	No. 24, 25	$U_{N} = 30V_{DC}$ $U_{M} = 250Vac$
Н	No. 24, 25	$U_{N} = 30V_{DC}$ $I_{N} = 100 \text{mA}_{DC} / 500 \text{mA}_{AC}$ $U_{M} = 250 \text{Vac}$

Input/Output 3		
Order Code h =	terminal no.	values
C, G	No. 22, 23	$\begin{array}{lll} U_{i} &= 30V \\ I_{i} &= 100 mA \\ P_{i} &= 1.25W \\ L_{i} &= 0 \\ C_{i} &= 0 \end{array}$
B, D, E, F, I, J	No. 22, 23	$U_N = 30V_{DC}$ $U_M = 250Vac$
Н	No. 22, 23	$U_{N} = 30V_{DC}$ $I_{N} = 100 \text{mA}_{DC} / 500 \text{mA}_{AC}$ $U_{M} = 250 \text{Vac}$

Input/Output 4		
Order Code i =	terminal no.	values
C, G	No. 20, 21	$\begin{array}{lll} U_i &= 30V \\ I_i &= 100 mA \\ P_i &= 1.25W \\ L_i &= 0 \\ C_i &= 0 \end{array}$
B, D, E, F, I, J	No. 20, 21	$U_N = 30V_{DC}$ $U_M = 250Vac$
Н	No. 20, 21	$U_{N} = 30V_{DC}$ $I_{N} = 100 \text{mA}_{DC} / 500 \text{mA}_{AC}$ $U_{M} = 250 \text{Vac}$

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Service Interface			
Order Code	terminal no.	values	
dd =			
BA, BB, BC, BD, B7, B8	Service Interface	Service Interface shall only be installed in areas	
		which are known to be non hazardous	
not for:	Service Interface	$U_{N} = 3.3V$	
BA, BB, BC, BD, B7, B8			

Display remote		
Order Code dd =	terminal no.	values
BA, BB, BC, BD, B7, B8	No. 81, 82, 83, 84	
not for: BA, BB, BC, BD, B7, B8	No. 81, 82, 83, 84	$\begin{array}{rcl} U_N &=& 3.3V \\ I_N &=& 150 \text{mA} \end{array}$

For Transmitter with approval code dd = BA, BB, BC, BD, B7 and B8 connected to the Remote Display of Endress+Hauser, Type DKX001 or ODKX001, the cable parameter with ration $L/R = \le 0.024$ mH/ Ω applies.

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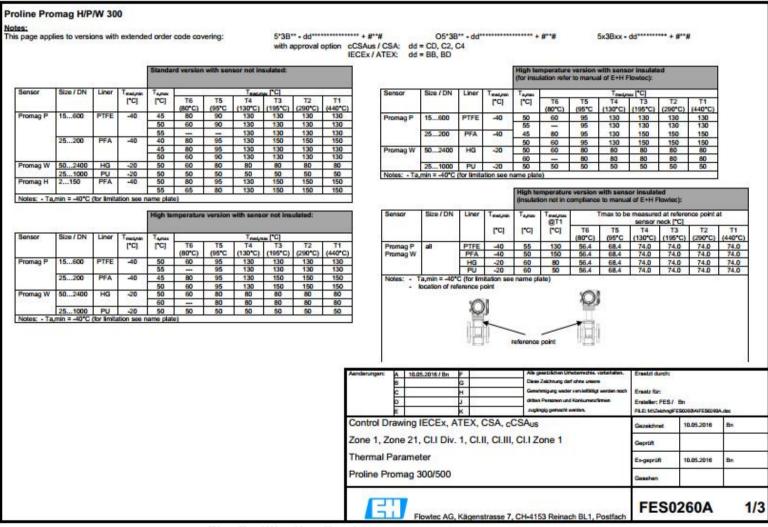
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Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG

2.2 Thermal Parameters (Zone 1)



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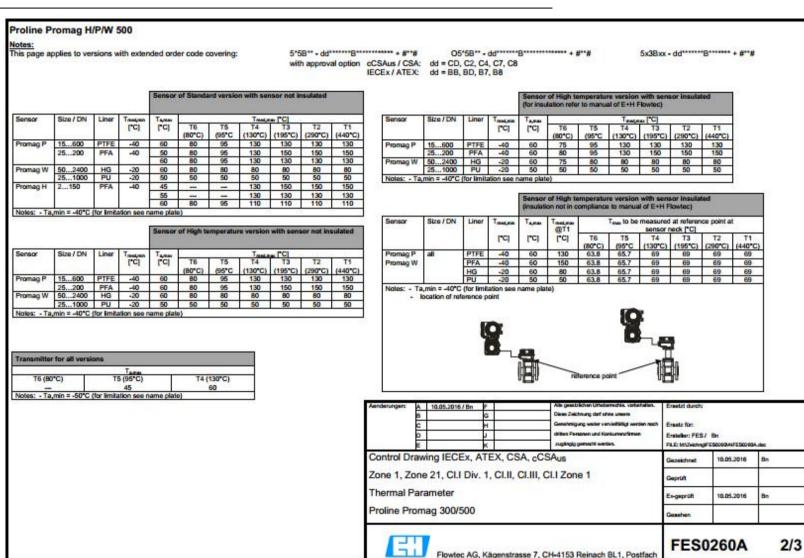
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Proline Promag H/P/W 500 This page applies to versions with extended order code covering: 5*5B** - dd******* + #**# O5*5B** - dd******* + #**# 5x3Bxx - dd ----- + # -# with approval option oCSAus / CSA: dd = CN, C6 IECEx / ATEX: dd = BJ. BN nsor of Standard version with sensor not insulated (for insulation refer to manual of E+H Flowtec) Size / DN Liner ["C] ["C] T4 T3 T2 ["C] (B0°C) (130°C) (195°C) (290°C) (440°C) (80°C) (95°C (130°C) (195°C) (290°C) (440°C) 15...600 PTFE 40 60 130 130 15...600 PTFE -40 70 95 130 130 130 130 150 25, 200 40 . 50 80 95 130 150 150 25...200 PFA -40 60 50...2400 HG -20 60 75 95 130 150 150 75 80 80 80 80 80 150 130 80 95 130 130 130 50...2400 HG -20 60 80 25...1000 PU -20 50 50 50 50 50 50 25...1000 PU -20 Notes: - Ta min = -40°C (for limitation see name plate) 2...150 PFA -40 35 80 45 80 150 95 135 135 135 135 ensor of High temperature version with sensor insula 55 80 95 115 115 115 115 Notes: - Ta min = -40°C (for limitation see name plate) to be measured at reference point at Size / DN Liner Telecope Tare [c] [C] ["C] (B0°C) (130°C) (195°C) (290°C) (440°C) 69 70.9 70.9 70.9 Size / DN Liner Promag P PTFE -40 60 130 63.8 65.7 [°C] T_{med med} 60 60 150 63.8 65.7 69 70.9 70.9 70.9 80 63.8 65.7 69 70.9 70.9 70.9 -40 -20 ["C] T6 T3 T2 PFA Promag W (95°C (130°C) (195°C) (290°C) (440°C) 95 130 130 130 130 HG: 15...600 PTFE -40 60 80 PU -20 50 50 63.8 65.7 69 70.9 70.9 70.9 25...200 PFA -40 60 80 95 130 150 150 150 Notes: - Ta,min = -40°C (for limitation see name plate) 50...2400 HG -20 60 80 25...1000 PU -20 50 50 - location of reference point Transmitter for all versions: Type of reference point enclosure T4 Ordinary location (130°C) plastic 60 Notes: - aluminium enclosure: Ta,min = -50°C (for limitation see name plate) Frante für plastic enclosure: Ta,min = -40°C Ersteller: FES/ Br FILE: MINIMARINGFESQUIDAUFESQUIDA.doc Control Drawing IECEx, ATEX, CSA, cCSAus 10.05.2016 Zone 1, Zone 21, Cl.I Div. 1, Cl.II, Cl.III, Cl.I Zone 1 Thermal Parameter 10.05.2016 Proline Promag 300/500

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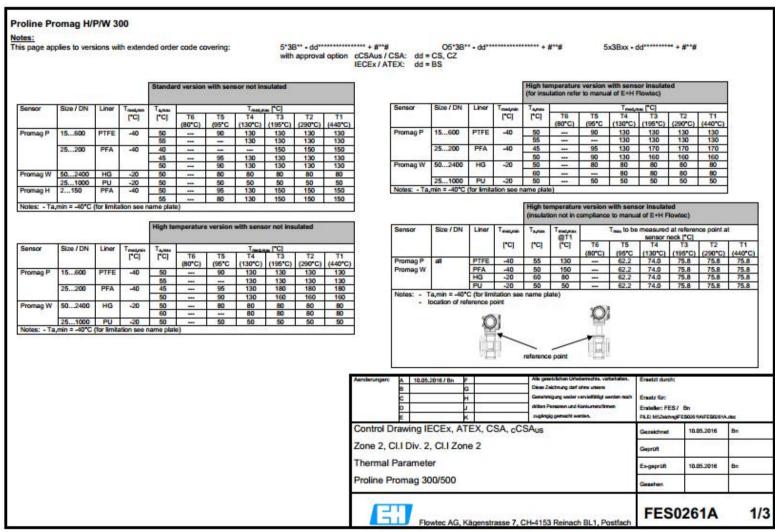
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Certificate Number: Sira 16ATEX2219X

Equipment: Proline Promag 300/500
Applicant: Endress+Hauser Flowtec AG

2.3 Thermal Parameters (Zone 2)



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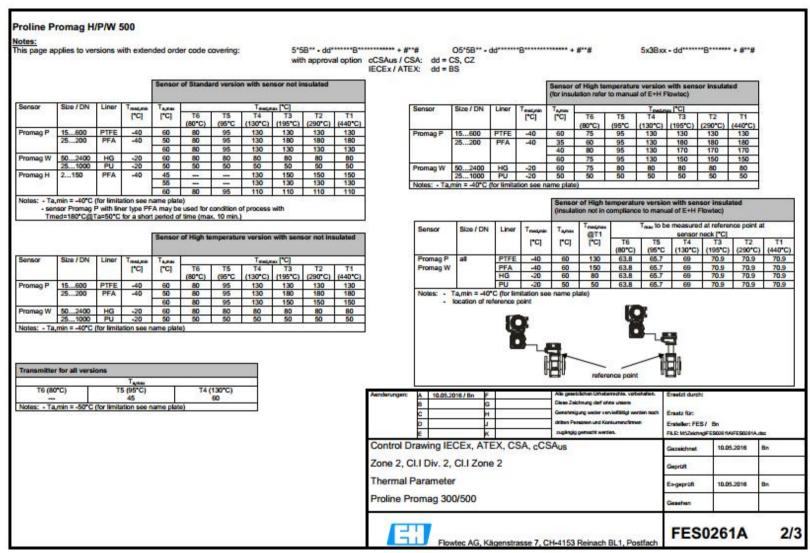
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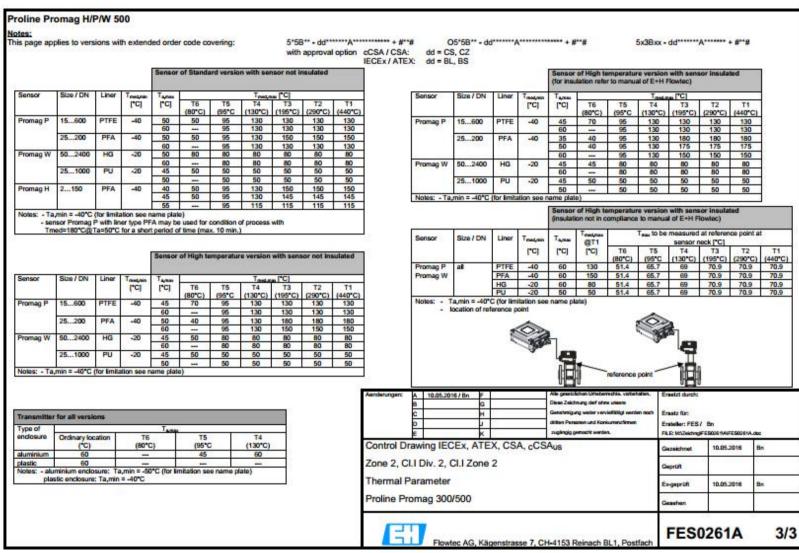
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