

Safety Instructions

CNGmass

ATEX: II2G Ex ia IIC T6...T1

II2D Ex tb IIIC Txx °C

IECEX: Zone 1 Ex ia IIC T6...T1

Zone 21 Ex tb IIIC Txx °C



Document: XA01251D

Safety instructions for electrical apparatus for explosion-hazardous areas according to Directive 94/9/EC (ATEX) and IEC 60079-0 → 5

BG Правила за техниката на безопасност за електрически средства за производство във взривоопасни зони. Ако не разбирате езика на това ръководство има възможност да си поръчате при нас едно ръководство, преведено на езика на Вашата страна.

Заявление за съответствие с EG

Производителят Endress+Hauser декларира с това заявление за съответствие и с предявяването на сертификата CE, че този продукт отговаря на изискванията на съответните европейски директиви. Прилаганите директиви, норми и документи са указани в заявлението за съответствие.

CS Bezpečnostní pokyny pro elektrické přístroje v místech s nebezpečím výbuchu. Pokud nemáte možnost přečíst si tento návod, můžete si u nás objednat návod přeložený do svého jazyka.

Prohlášení o shodě s E

Společnost Endress+Hauser prohlašuje prostřednictvím tohoto prohlášení a použitím značky CE, že tento výrobek vyhovuje příslušným evropským směrnicím. Zmíněné směrnice, normy a dokumenty jsou uvedeny v Prohlášení o shodě.

DA Sikkerhedsforskrifter for elektriske apparater certificeret til brug i eksplosionsfarlige områder. Hvis du ikke forstår denne manual, kan en oversat kopi af den på dit eget sprog bestilles fra os.

EF-overensstemmelseserklæring

Med denne overensstemmelseserklæring og tilføjjelsen af CE-mærket sikrer producenten Endress+Hauser, at produktet er i overensstemmelse med relevante europæiske direktiver. Dokumentation for overensstemmelsen gives i de anførte direktiver, standarder og dokumenter.

EL Οδηγίες ασφαλείας ηλεκτρικών συσκευών για επικίνδυνες για έκρηξη περιοχές. Σε περίπτωση που δεν μπορείτε να διαβάσετε αυτές τις οδηγίες, τότε μπορείτε να παραγγείλετε ένα αντίτυπο μεταφρασμένο στη γλώσσα σας.

Δήλωση πιστότητας EK

Με αυτή τη δήλωση πιστότητας και την τοποθέτηση του σήματος CE ο κατασκευαστής Endress+Hauser δηλώνει, ότι αυτό το προϊόν συμμορφώνεται με τις ευρωπαϊκές οδηγίες που πρέπει να εφαρμοστούν. Οι οδηγίες, τα πορότυπα και τα έγγραφα που εφαρμόστηκαν αναφέρονται στη δήλωση πιστότητας.

ES Instrucciones de seguridad de aparatos eléctricos homologados para su utilización en áreas expuestas a riesgos de deflagración. Si no entiendes este manual, puede pedir un ejemplar en su idioma.

Declaración de conformidad CE

Por la presente declaración y la inclusión de la marca CE, el fabricante Endress+Hauser, declara que el producto cumple con las directivas europeas pertinentes. Las directivas, normas y documentos de aplicación se indican en la declaración de conformidad.

ET Ohutusjuhised plahvatusohtlikus keskkonnas kasutatavate elektriseadmete kohta. Kui Te ei saa käesolevast juhendist aru, võite meilt tellida Teie riigikeelde tõlgitud juhendi.

EL vastavusdeklaratsioon

Tootja Endress+Hauser kinnitab juurdelisatud vastavusdeklaratsiooni esitamisega ja CE-märgise kandmisega tootele, et käesolev toode vastab kohaldatavate Euroopa Liidu direktiivide nõuetele. Kohaldatavad direktiivid, standardid ja dokumendid on ära toodud vastavusdeklaratsioonis.

FI Turvallisuusohjeita sähkölaitteille, jotka on vahvistettu käytettäväksi räjähdysvaarallisilla alueilla. Jos et ymmärrä tätä käsikirjaa, voit tilata meiltä käännöksen omalla kansallisella kielelläsi.

EU-vaatimustenmukaisuustodistus

Valmistaja Endress+Hauser vakuuttaa täällä vaatimustenmukaisuustodistuksella ja CE-merkin kiinnittämisellä, että tämä tuote täyttää sovellettavien EU-direktiivien määräykset. Sovellettavat direktiivit, normit ja dokumentit on merkitty vaatimustenmukaisuustodistukseen.

HR Sigurnosni naputci za elektromaterijal u sredini u kojoj prijeti opasnost od eksplozije. Ako Vam nije moguće čitati ovaj naputak, onda imate mogućnost da kod nas naručite naputak sastavljen na Vašem materinskom jeziku.

Izjava o usuglašenosti sa normama EZ-a

Dobavljač Endress+Hauser jamči ovom izjavom i stavljanjem oznake CE da ovaj proizvod udovoljava zahtjevima europskih direktiva koje su na snazi. U izjavi o usuglašenosti se navode direktive, norme i dokumenti koji su na snazi.

HU Biztonsági információk robbanásveszélyes területre való elektromos eszközökhöz. Amennyiben nem tudja elolvasni ezt az útmutatót, akkor megrendelheti az Ön anyanyelvére lefordítva is.

EK-megfelelőségi nyilatkozat

Az Endress+Hauser mint gyártó jelen megfeleléségi nyilatkozattal és a CE-jelzés felhelyezésével kijelenti, hogy ez a termék megfelel az alkalmazandó európai irányelveknek. Az alkalmazott irányelvek, szabványok és dokumentumok a megfeleléségi nyilatkozatban fel vannak tüntetve.

IT Istruzioni di sicurezza per apparecchiature elettriche certificate per l'utilizzo in aree con pericolo di esplosione. Se il presente manuale non risulta comprensibile potete ordinarne una copia tradotta nella vostra lingua.

Dichiarazione di conformità CE

Con questa dichiarazione e con l'applicazione del marchio CE, il costruttore Endress+Hauser, assicura che il prodotto è conforme alle direttive europee vigenti. Prova della conformità è fornita dall'osservanza delle direttive, delle norme e dei documenti elencati.

- LT Elektros įrenginio saugumo nurodymai, susiję su sprogimo zonomis. Jeigu negalite perskaityti šios instrukcijos, kreipkitės į mus, kad užsisakytumėte į jūsų gimtąją kalbą išverstą instrukciją.
- EB atitikties deklaracija**
Gamintojas Endress+Hauser šia atitikties deklaracija ir CE ženkliniu patvirtina, kad gaminys atitinka taikytinas ES direktyvas. Taikomos direktyvos, normos ir dokumentai yra pateikiami atitikties deklaracijoje.
- LV Drošības norādījumi elektrisko darba instrumentu lietošanai apgabalos, kas pakļauti sprādzienbīstamībai. Ja Jums nav iespēju izlasīt šos norādījumus, Jūs varat pasūtīt pie mums tulkojumu Jūsu valsts valodā.
- ES atbilstības apliecinājums**
Ražotājs Endress+Hauser ar šo atbilstības apliecinājumu un CE zīmola lietojumu apstiprina, ka produkts izgatavots saskaņā ar atbilstošajām Eiropas vadlīnijām. Piemērotās vadlīnijas, normas un dokumenti atrunāti atbilstības apliecinājumā.
- NL Veiligheidsinstructies voor elektrisch materieel in explosiegevaarlijke omgeving. Wanneer u deze handleiding niet kunt lezen, kunt u een in uw landstaal vertaalde handleiding bij ons bestellen.
- EG Conformiteitsverklaring**
De leverancier Endress+Hauser waarborgt met deze verklaring en het aanbrengen van het CE-teken, dat dit product overeenstemt met de geldende Europese richtlijnen. De geldende richtlijnen, normen en documenten zijn aangegeven in de conformiteitsverklaring.
- PL Wskazówki dot. bezpieczeństwa dla urządzeń elektrycznych stosowanych w obszarze zagrożonym wybuchem. Jeśli niniejsza instrukcja napisana jest w języku, którym się nie posługujesz, możesz zamówić u nas przetłumaczony dokument.
- Deklaracja zgodności WE**
Producent Endress+Hauser w niniejszej deklaracji zgodności wraz z nadaniem znaku CE oświadcza, że produkt ten jest zgodny z obowiązującą Europejską Dyrektywą. Zastosowane wytyczne, normy oraz dokumenty podane są w deklaracji zgodności.
- PT Instruções de segurança para dispositivos eléctricos certificados para utilização em áreas de risco de incêndio. Se não compreender este manual, pode encomendar-nos directamente uma cópia na sua língua.
- Declaração de conformidade CE**
Com esta declaração de conformidade e a aplicação da marca CE, o fabricante Endress+Hauser, garante que o produto obedece às directivas europeias a aplicar. As directivas, normas e documentos são apresentadas na declaração de conformidade.
- RO Indicații de siguranță pentru mijloacele de producție electrice pentru zonele periclitare de explozie. Dacă nu puteți citi aceste instrucțiuni, atunci puteți comanda la noi instrucțiunile traduse în limba țării dumneavoastră.
- Declarație de conformitate CE**
Producătorul Endress+Hauser declară prin declarația de conformitate alăturată și prin aplicarea semnului CE că acest produs corespunde directivelor europene aplicabile. Directivele, normele aplicate și documentele sunt menționate în declarația de conformitate.
- SK Bezpečnostné pokyny pre elektrické zariadenie prevádzkované v priestoroch s nebezpečnosťou výbuchu. Ak nemáte možnosť 'prečítať' si tento návod, môžete si u nás objednať návod preložený do svojej jazyka.
- Vyhľadanie o konformite s ES**
Spoločnosť Endress+Hauser vyhlasuje prostredníctvom tohto vyhlásenia o konformite a použitím značky CE, že tento výrobok vyhovuje príslušným európskym smerniciam. Zmieňované smernice, normy a dokumenty sú uvedené vo Vyhlásení o konformite.
- SL Varnostni napotki glede električne opreme, namenjene za uporabo v eksplozivnih območjih. Če teh navodil ne morete razumeti, lahko pri nas naročite prevod v vaš jezik.
- Pojasnilo glede potrdila o skladnosti EU**
Proizvajalec Endress+Hauser s to izjavo o skladnosti in navedbo oznake CE izjavlja, da je ta izdelek skladen s predpisanimi evropskimi smernicami. Upoštevane smernice, standardi in dokumenti so navedeni v izjavi o skladnosti.
- SV Säkerhetsföreskrifter för elektrisk utrustning certifierad för användning i explosionsfarliga områden. Om du inte förstår denna manual, kan en översatt kopia på ditt eget språk beställas från oss.
- EG-försäkran om överensstämmelse**
Endress+Hauser försäkras med vidstående försäkran om överensstämmelse och med CE-märkningen att denna produkt överensstämmer med de tillämpbara europeiska riktlinjerna. De tillämpade riktlinjerna, normerna och dokumenten anges i försäkran om överensstämmelse.

EG-Konformitätserklärung
EC declaration of conformity
Déclaration CE de conformité

ID 175 / 0

Endress + Hauser Flowtec AG, Kägenstrasse 7, CH-4153 Reinach

erklärt in alleiniger Verantwortung, dass das Produkt
declares in sole responsibility, that the product
déclare sous sa seule responsabilité que le produit

Massendurchfluß-Meßsystem
Coriolis mass flow measuring system
Système de mesure de débit massique

CNGmass D8CB-BM/BU/85*****+###**
LPGmass D8EB-BM/BU/85*****+###**
LNGmass D8LB-BM/BU/85*****+###**

mit den Vorschriften folgender Europäischer Richtlinien übereinstimmt:
conforms with the regulations of the following European Directives:
est conforme aux prescriptions et directives Européennes suivantes:
94/9/EG

2004/108/EG

Angewandte harmonisierte Normen oder normative Dokumente:
Applied harmonised standards or normative documents:
Normes harmonisées ou documents normatifs appliqués:


EN 60079-0: 2012 EN 60079-11: 2012 EN 60079-15: 2010
EN 60079-31: 2009 EN 60529: 2000 EN 61010-1: 2010
EN 61326-1: 2013 EN 61326-2-3: 2013

EG Baumusterprüfbescheinigung Nummer: DEKRA 13ATEX0041
EC-Type Examination Certificate Number:
Numéro du certificat d'examen CE de type:


Benannte Stelle / Kennnummer: TÜV NORD CERT GmbH / 0044
Notified body / Identification number:
Organisme notifié / Numéro

Erste Anbringung der CE-Kennzeichnung: 2013
CE marking first affixed:
Année de mise en conformité

Reinach, 10.10.2013



Dr. G. Jost
(Geschäftsführer / Managing Director /
P.D.G)



i.V. Chr. Matt
(OEM-Produkte / OEM-Products /
Produits OEM)

CNGmass

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Associated documentation

All documentation is available:

- On the CD-ROM supplied (not included in the delivery for all device versions).
- Available for all device versions via:
 - Internet: www.endress.com/deviceviewer
 - Smart phone/tablet: *Endress+Hauser Operations App*
- In the Download Area of the Endress+Hauser web site: www.endress.com → Download

This document is an integral part of the following Operating Instructions:

Measuring device	Documentation code
CNGmass	BA01283D

Additional documentation:

Document type	Contents	Documentation code
Brochure	Explosion Protection	CP00021Z/11

Please note the documentation associated with the device.

Manufacturer's certificates

EC Declaration of Conformity

(→  4)

EC type-examination certificate

Certificate number:
DEKRA 13ATEX0041

IEC certificate of conformity

Certificate number:
IECEX DEK 13.0008

Affixing the certificate number certifies conformity with the standards under www.IECEX.com (depending on the device version).

- IEC 60079-0: 2011
- IEC 60079-11: 2011
- IEC 60079-15: 2010
- IEC 60079-31: 2008

Extended order code

The extended order code is indicated on the nameplate, which is affixed to the device in such a way that it is clearly visible. Additional

information about the nameplate is provided in the associated Operating Instructions.

Structure of the extended order code

*****	-	*****	+	A*B*C*D*E*F*G*...
Device type		Basic specifications		Optional specifications
* =	Placeholder: At this position, an option (number or letter) selected from the specification is displayed instead of the placeholders.			

- Device type**
 The device and the device design is defined in the "Device type" section (Product root).
- Basic specifications**
 The features that are absolutely essential for the device (mandatory features) are specified in the basic specifications. The number of positions depends on the number of features available. The selected option of a feature can consist of several positions.
- Optional specifications**
 The optional specifications describe additional features for the device (optional features). The number of positions depends on the number of features available. The features have a 2-digit structure to aid identification (e.g. JA). The first digit (ID) stands for the feature group and consists of a number or a letter (e.g. J = test, certificate). The second digit constitutes the value that stands for the feature within the group (e.g. A = 3.1 material (wetted parts), inspection certificate).

More detailed information about the device is provided in the following tables. These tables describe the individual positions and IDs in the extended order code which are relevant to hazardous locations.

Device type

Position	Order code	Selected option	Description
1	Flow	D	D = flow
2	Instrument family	8	Coriolis flowmeter
3	Product	C	C = CNGmass
4	Generation index	B	Platform generation
5, 6	Nominal diameter	08, 15, 25	Nominal diameter of sensor

Basic specifications

Position	Order code	Selected option	Explosion protection	
			Transmitter/sensor	Safety Barrier Promass 100
1, 2	Approval	BM, 85	Ex ia IIC T6...T1 Gb Ex tb IIIC Txx °C Db	Ex nA [ia Ga] IIC T4 Gc
		BU	Ex ia IIC T6...T1 Gb	
Txx °C for Group IIIC (dust) (→ 10)				

Position	Order code	Selected Option	Description
3	Input; Output	M	Modbus RS485
4	Display; Operation	A	W/o; via communication
5	Housing	A	Compact, alu, coated

Optional specifications

ID	Order code	Selected option	Description
Jx	Test, Certificate	JM	Ambient temperature transmitter -50 °C

Safety instructions: General

- Staff must meet the following conditions for mounting, electrical installation, commissioning and maintenance of the device:
 - Be suitably qualified for their role and the tasks they perform.
 - Be trained in explosion protection.
 - Be familiar with national regulations (e.g. IEC/EN 60079-14).
- Install the device according to the manufacturer's instructions and national regulations.
- Do not operate the device outside the specified electrical, thermal and mechanical parameters.
- Only use the device in media to which the wetted materials have sufficient durability.
- Refer to the temperature tables for the relationship between the permitted ambient temperature for the sensor and/or transmitter, depending on the range of application, and the temperature classes.
- Modifications to the device can affect the explosion protection and must be carried out by staff authorized to perform such work by Endress+Hauser.
- When using in hybrid mixtures (gas and dust occurring simultaneously), observe additional measures for explosion protection.
- Observe all the technical data of the device (see nameplate).

Safety instructions: Installation

In the event of potentially explosive vapor/air mixtures, only operate the device under atmospheric conditions.

- Temperature: -20 to $+60$ °C
- Pressure: 80 to 110 kPa (0.8 to 1.1 bar)
- Air with normal oxygen content, usually 21 % (V/V)

If no potentially explosive mixtures are present, or if additional protective measures have been taken according to EN 1127-1, the device may also be operated under non-atmospheric conditions in accordance with the manufacturer's specifications.

- The measuring device should only be used with the supplied Safety Barrier Promass 100 (safety barrier).
- The Safety Barrier Promass 100 may only be installed in a non-hazardous area or Zone 2. If the safety barrier is installed in Zone 2, it must be installed in a housing. The housing must meet the requirements of IEC/EN 60079-15.
- Continuous service temperature of the connecting cable: -40 to $+80$ °C (-50 to $+80$ °C for optional specifications, ID Jx (Test, Certificate) = JM); in accordance with the range of service temperature taking into account additional influences of the process conditions ($T_{a,min}$ and $T_{a,max} + 20$ K).
- The connection cable and the installation between Safety Barrier Promass 100 and the measuring device must meet the requirements of IEC/EN 60079-14.
- Only use certified cable entries and connection plugs M12×1 suitable for the application. Observe selection criteria as per IEC/EN 60079-14.
- Supplied cable glands M20 × 1.5 are only suitable for fixed installation of cables and connections. In the installation, a strain relief must be provided.

Intrinsic safety

- The device can be connected to the Endress+Hauser FXA291 service tool: refer to the Operating Instructions.
- Observe the pertinent guidelines when interconnecting intrinsically safe circuits (e.g. IEC/EN 60079-14, Proof of Intrinsic Safety).
- Observe the connection data when selecting the connection cable between Safety Barrier Promass 100 and measuring device .

Potential equalization

- Integrate the device into the local potential equalization.
- If the ground connection has been established via the pipe as specified, it is also possible to integrate the sensor into the potential equalization system via the pipe.

Safety instructions:
Zone 21

- To ensure dust-tightness, securely seal the transmitter housing, cable entries and sealing plugs.
- Only open the transmitter housing briefly, ensuring that no dust or moisture enters the housing.
- Seal unused entry glands with approved sealing plugs that correspond to the type of protection. The plastic transport sealing plug does not meet this requirement and must therefore be replaced during installation.
- Only use certified cable entries and sealing plugs. The cable entries and metal sealing plugs supplied meet this requirement.

Temperature tables

Ambient temperature

Minimum ambient temperature:

- $T_a = -40\text{ °C}$
- *Optional specification, ID Jx (Test, Certificate) = JM*
 $T_a = -50\text{ °C}$

Maximum ambient temperature:

$T_a = +60\text{ °C}$ depending on the medium temperature and temperature class

Medium temperature


Minimum medium temperature:

$T_m = -50\text{ °C}$

Maximum medium temperature:

T_m for T6...T1 depending on the maximum ambient temperature T_a

Compact version

Temperature values in brackets [] correspond to Txx °C for Group IIIC (dust). (→  11)

Basic specification, Position 5 (Housing) = A

T_a [°C]	T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
35	50	85	120	150	150	150
50	-	85	120	150	150	150
60	-	-	120	150	150	150

Explosion hazards arising from gas and dust

Determining the temperature class and surface temperature with the temperature table

- In the case of gas: Determine the temperature class as a function of the ambient temperature T_a and the medium temperature T_m .
- In the case of dust: Determine the maximum surface temperature as a function of the maximum ambient temperature T_a and the maximum medium temperature T_m .

Example

- Measured maximum ambient temperature: $T_{ma} = 47\text{ °C}$
- Measured maximum medium temperature: $T_{mm} = 108\text{ °C}$

4.

	Ta [°C]	T6 [85°C]	T5 [100°C]	T4 [135°C]	T3 [200°C]	T2 [300°C]	T1 [450°C]
	35	50	85	120	140	140	140
	50	-	85	120	140	140	140
	60	-	-	120	140	140	140
	35	50	85	120	140	140	140
	45	-	85	120	140	140	140
	50	-	-	120	140	140	140

1. 2. 3.

A0019758

1 Procedure for determining the maximum surface temperature

1. Select device (optional).
2. In the column for the maximum ambient temperature T_a select the temperature that is immediately greater than or equal to the measured maximum ambient temperature T_{ma} that is present.
 - ↳ $T_a = 50\text{ °C}$.
 - The row showing the maximum medium temperature is determined.
3. Select the maximum medium temperature T_m of this row, which is larger or equal to the measured maximum medium temperature T_{mm} .
 - ↳ The column with the temperature class for gas is determined: $108\text{ °C} \leq 120\text{ °C} \rightarrow T4$.
4. The maximum temperature of the temperature class determined corresponds to the maximum surface temperature for dust: $T4 = 135\text{ °C}$


**Connection data:
Signal circuits**

The following tables contain specifications which are dependent on the transmitter type and its input and output assignment. Compare the following specifications with those on the nameplate of the transmitter.

Terminal assignment

Transmitter

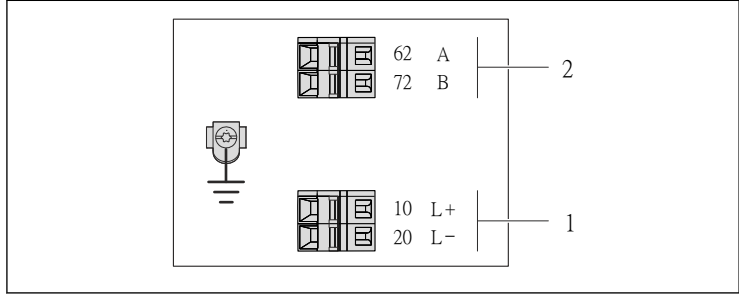


The order code constitutes part of the extended order code. Detailed information on the codes for the device and on the structure of the extended order code (→  7).

Modbus RS485 connection version

i For use in the intrinsically safe area. Connection via Safety Barrier Promass 100.

Order code for "Output", option **M**



A0017053

2 *Modbus RS485 terminal assignment, connection version for use in intrinsically safe areas (connection via Safety Barrier Promass 100)*

1 *Intrinsically safe power supply*

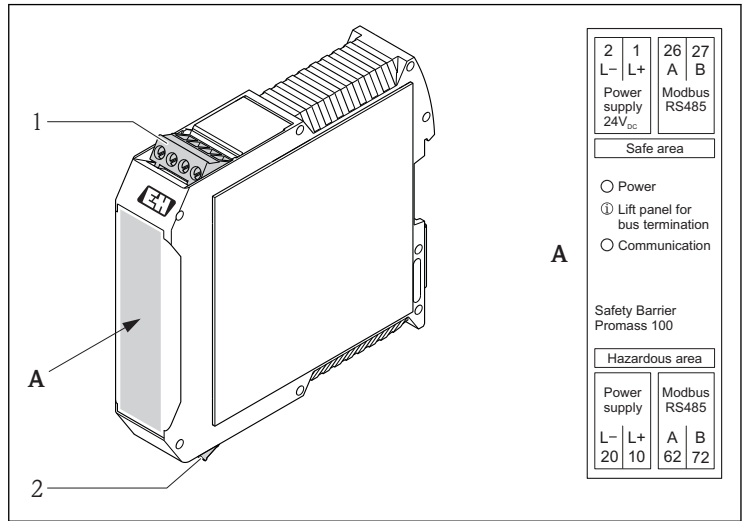
2 *Modbus RS485*

Order code "Output"	20 (L-)	10 (L+)	72 (B)	62 (A)
Option M	Intrinsically safe supply voltage		Modbus RS485 intrinsically safe	

Order code for "Output":

Option **M**: Modbus RS485, for use in intrinsically safe areas (connection via Safety Barrier Promass 100)

Safety Barrier Promass 100



A0016922

3 Safety Barrier Promass 100 with terminals

- 1 Non-hazardous area and Zone 2/Div. 2
- 2 Intrinsically safe area

Intrinsically safe values

These values only apply for the following device version:
Order code for "Output", option M "Modbus RS485", for use in intrinsically safe areas

Safety Barrier Promass 100

Safety-related values

Terminal numbers			
Supply voltage		Signal transmission	
2 (L-)	1 (L+)	26 (A)	27 (B)
$U_{nom} = DC\ 24\ V$ $U_{max} = AC\ 260\ V$		$U_{nom} = DC\ 5\ V$ $U_{max} = AC\ 260\ V$	

Intrinsically safe values

Terminal numbers			
Supply voltage		Signal transmission	
20 (L-)	10 (L+)	62 (A)	72 (B)
$U_o = 16.24 \text{ V}$ $I_o = 623 \text{ mA}$ $P_o = 2.45 \text{ W}$ With IIC ¹⁾ : $L_o = 92.8 \text{ } \mu\text{H}$, $C_o = 0.433 \text{ } \mu\text{F}$, $L_o/R_o = 14.6 \text{ } \mu\text{H}/\Omega$			

1) The gas group depends on the sensor and nominal diameter.

Transmitter

Intrinsically safe values

Terminal numbers			
Supply voltage		Signal transmission	
20 (L-)	10 (L+)	62 (A)	72 (B)
$U_i = 16.24 \text{ V}$ $I_i = 623 \text{ mA}$ $P_i = 2.45 \text{ W}$ $L_i = 0 \text{ } \mu\text{H}$ $C_i = 6 \text{ nF}$			

Pin assignment, device plug

MODBUS RS485

Device plug for signal transmission with supply voltage (device side), MODBUS RS485 (intrinsically safe)

	Pin	Assignment	
	1	L+	Supply voltage, intrinsically safe
	2	A	Modbus RS485 intrinsically safe
	3	B	
	4	L-	Supply voltage, intrinsically safe
5		Grounding/shielding	
	Coding	Plug/socket	
	A	Plug	

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