

EX Instructions

Number of EC type examination certificate

PTB 20 ATEX 4003 X

Scope

Type	Description as per EN ISO 16852	Installation location
MF2100	VDEF	Between measuring device and open process connection
MF2110	VDEF	Between measuring device and diaphragm seal or between measuring device and capillary
MF2120	DET 4	Between capillary and diaphragm seal

Marking

 IIG IIC

- BG: Ако не разбирате указанията за безопасност, можете да изискате превод на вашия език.
- CZ: Pokud těmto bezpečnostním pokynům nerozumíte, můžete si vyžádat jejich překlad do vašeho jazyka.
- DA: Hvis du ikke forstår sikkerhedshenvisningerne, kan du forespørge en oversættelse i dit sprog.
- DE: Wenn Sie diese Sicherheitshinweise nicht verstehen, können Sie eine Übersetzung in Ihrer Landessprache anfordern.
- EL: Εάν δεν καταλαβαίνετε αυτές τις υποδείξεις ασφαλείας, μπορείτε να ζητήσετε μια μετάφραση στη μητρική σας γλώσσα
- ES: Si no entiendes estas indicaciones de seguridad, puede solicitar una traducción en su idioma.
- ET: Kui need ohutusnõuded ei ole teile arusaadavad, võite tellida meilt tõlke oma keelde.
- FI: Jos et ymmärrä näitä turvaohjeita, voi pyytää ne lähetettäväksi omalle kielellesi käännettynä.
- FR: Si vous ne comprenez pas les consignes de sécurité, vous pouvez faire la demande d'une traduction dans votre langue.
- HU: Amennyiben nem érti ezeket a biztonsági utasításokat, akkor kérheti ezeknek az Ön nyelvére lefordított változatát.
- IT: Nel caso non capite queste avvertenze di sicurezza, ne potete richiedere una traduzione nella vs. lingua.
- LT: Jei nesuprantate šių saugos reikalavimų, galite užsisakyti jų vertimą į Jūsų kalbą.
- LV: Ja jūs nesaprotat šos drošības norādījumus, jūs varat pieprasīt tulkojumu jūsu valodā.
- NL: Indien u deze veiligheidsinstructies niet begrijpt, kunt u een vertaling in uw eigen taal aanvragen.
- PL: Jeżeli niniejsze przepisy bezpieczeństwa są niezrozumiałe, można poprosić o tłumaczenie we własnym języku.
- PT: Se não compreender os avisos de segurança, pode solicitar uma tradução no seu idioma.
- RO: Dacă nu înțelegeți aceste instrucțiuni de siguranță puteți cere traducerea acestora în limba dvs.
- SK: Ak ste nepochopili bezpečnostné pokyny, môžete si vyžádať preklad do svojho jazyka.
- SL: Če teh navodil ne razumete, lahko zahtevate prevod v Vaš jezik.
- SV: Om du inte förstår den här säkerhetsanvisningen kan du begära att få en översättning till ditt språk.

1 General Safety Notes

The installation, set up, service or disassembly of this device must only be done by trained, qualified personnel using suitable equipment and authorized to do so.



Warning

Media can escape if unsuitable devices are used or if the installation is not correct.

Danger of severe injury or damage

- Ensure that the device is suitable for the process and undamaged.


Measuring devices in explosive environments must be installed and commissioned by competent personnel that are familiar with the specialties of explosion protection. Modifications or damage of devices or electrical connections might negatively influence the operating safety or the ex-proofing.

Observe the regulations and standards for erection and operation of electrical installations in explosive atmospheres as well as the installation and safety notes in the corresponding operation instructions.

2 Operating principles

Flame arresters of the MF21xx series are installed as coupling elements between a pressure measuring device for use in zone 1 (category 2G) and the process being measured. Their function is to prevent a possible flame flashback from a measuring device into the process.

3 Operating conditions

In accordance with their marking  IIG or IIC, flame arresters are suitable for the following applications:

Marking	Usage
IIG	where there is a possible danger of explosive gas, mist or steam-air mixtures, but not in underground and surface mining operations.
IIC	with gas, mist and steam-air mixtures of explosion groups IIC, IIB and IIA, having a standard gap width $\geq 0,29$ mm. A typical gas in this group is hydrogen. Volatile gas, mist and steam-air mixtures, e.g. acetylene and carbon disulphide, or those that are chemically unstable, are not permitted.

The following environmental conditions apply:

- maximum ambient pressure $\leq 1,1$ bar abs
- maximum operating temperature ≤ 60 °C

4 General information

When using an MF2100, make sure that the wetted parts are resistant to the media, while considering all process conditions.

In terms of safety no maintenance of the flame arrester is necessary.

Flame arresters consist of a flame-extinguishing gap. However, when using an MF2100, ensure that this gap is not clogged by any media, as then its function is no longer guaranteed.

The flame arrester might cause a delayed measurement due to its throttle effect.


EU-Konformitätserklärung EU Declaration of Conformity

Hersteller **LABOM Mess- und Regeltechnik GmbH**
 Manufacturer **Im Gewerbepark 13, 27798 Hude, Germany**

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Gegenstand der Erklärung **Typenreihe**
 Object of the declaration *type series*
MF21xx

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Europäischen Union:
The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

für Messgeräte ... for devices ...	EU-Richtlinie EU directive	Harmonisierte Norm harmonised standard
mit EU-Baumusterprüfbescheinigung <i>with EU type examination certificate</i> PTB 20 ATEX 4003 X ausgestellt von / issued by 0102 Physikalisch-Technische Bundesanstalt und der EX-Kennzeichnung <i>and the EX marking</i>  IIG IIC	ATEX 2014/34/EU	EN ISO 16852:2016
der Typenreihe MF2100 PS > 200 bar: Modul A (druckhaltendes Ausrüstungsteil) <i>of type series MF2100</i> PS > 200 bar: module A (pressure accessory)	DGRL PED 2014/68/EU	AD 2000

LABOM Mess- und Regeltechnik GmbH
 Hude, 25.08.2021



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 Leiter Bereich Entwicklung / R & D Director

benannte Stellen für Auditierung des QS-Systems nach
notified bodies for auditing the QS-system according to
 ATEX **0102 Physikalisch-Technische
 Bundesanstalt**
 Zertifikat / certificate **PTB 13 ATEX Q002-2**