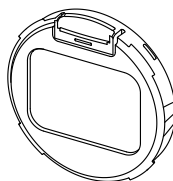


Special Documentation

VU101 Bluetooth® display

Remote operation via Bluetooth® wireless technology



1 Declaration of conformity

Endress+Hauser 
People for Process Automation



EU Declaration of Conformity

(de)	EU-Konformitätserklärung	(lv)	ES atbilstības deklarācija
(fr)	Déclaration de conformité UE	(hu)	EU-megfelelőségi nyilatkozat
(bg)	ЕС Декларация за съвместимост	(nl)	EG-conformiteitsverklaring
(es)	Declaración CE de conformidad	(pl)	Deklaracja zgodności UE
(cs)	EU prohlášení o shodě	(pt)	Declaração de conformidade da CE
(da)	EF-overensstemmelseserklæring	(ro)	Declarație de conformitate UE
(et)	ELi vastavusdeklaratsioon	(sk)	Vyhlasenie o zhode EÚ
(el)	Δήλωση συμμόρφωσης ΕΕ	(sl)	EU izjava o skladnosti
(hr)	EU Izjava o skladnosti	(fi)	EU-vaatimustenmukaisuusvakuutus
(it)	Dichiarazione di Conformità UE	(sv)	EU-försäkran om överensstämmelse
(lt)	ES atitikties deklaracija		

Endress+Hauser SE+Co. KG, Hauptstraße 1, 79689 Maulburg

declares as manufacturer under sole responsibility, that the product

(de)	erklärt als Hersteller in alleiniger Verantwortung, dass das Produkt
(fr)	déclare en tant que fabricant, sous sa seule responsabilité, que le produit
(bg)	декларира като производител с изключителна отговорност, че продуктът
(es)	declara, en calidad de fabricante y asumiendo en exclusiva la responsabilidad, que el producto
(cs)	jakožto výrobce, prohlašuje na svou vlastní zodpovědnost, že výrobek
(da)	erklærer som producent under eneansvar, at produktet
(et)	kinnitab tootjana oma ainuvastutusel, et toode
(el)	δηλώνει ως κατασκευαστής με αποκλειστική της ευθύνη, ότι το προϊόν
(hr)	izjavljuje kao proizvođač s isključivom odgovornošću da je proizvod
(it)	dichiara, sotto la propria esclusiva responsabilità in quanto fabbricante, che il prodotto
(lt)	kaip gamintojas prisilindamas atsakomybę patvirtina, kad gaminy
(lv)	kā ražotājs un uzņemoties visu atbildību paziņo, ka izstrādājums
(hu)	mint gyártó kizárólagos felelőssége mellett kijelenti, hogy a termék
(nl)	verklaart als fabrikant onder volledige verantwoordelijkheid, dat het product
(pl)	jako producent oświadcza, na swoją wyłączną odpowiedzialność, że wyrób
(pt)	declara como fabricante sob responsabilidade exclusiva, que o produto
(ro)	în calitate de producător, declară pe proprie răspundere că produsul
(sk)	vyhlasuje ako výrobca na vlastnú zodpovednosť, že výrobok
(sl)	kot proizvajalec z izključno odgovornostjo izjavlja, da je izdelek
(fi)	ilmoittaa valmistajana yksinomaisella vastuullaan, että tuote
(sv)	förmunnar som tillverkare med ensamansvar, att produkten

Segment display w/o buttons + Bluetooth VU101

A0052815

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**conforms to following European Directives:**

- (de) den folgenden Europäischen Richtlinien entspricht:
- (fr) est conforme aux directives européennes suivantes :
- (bg) отговаря на следните европейски директиви:
- (es) se ajusta a las siguientes directivas europeas:
- (cs) vyhovuje následujícím evropským směrnicím:
- (da) er i overensstemmelse med følgende direktiver:
- (et) vastab järgmistele Euroopa direktiividele:
- (el) συμμορφώνεται με τις ακόλουθες Ευρωπαϊκές Οδηγίες:
- (hr) u skladu sa sljedećim europskim direktivama:
- (it) è conforme alle seguenti direttive europee:
- (lt) atitinka toliau nurodytas Europos Sąjungos direktyvas:
- (lv) atbilst tālāk norādīto Eiropas direktīvu prasībām:
- (hu) megfelel az alábbi európai irányelveknek:
- (nl) voldoet aan de volgende Europese richtlijnen:
- (pl) jest zgodny z następującymi dyrektywami europejskimi:
- (pt) está em conformidade com as seguintes diretrizes europeias:
- (ro) este în conformitate cu următoarele directive europene:
- (sk) je v súlade s týmito európskymi smernicami:
- (sl) skladen z naslednjimi evropskimi direktivami:
- (fi) täyttää seuraavat eurooppalaiset direktiivit:
- (sv) överensstämmer med följande europeiska direktiv:

RED 2014/53/EU (L153/62)

RoHS 2011/65/EU (L174/88)

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Applied harmonized standards or normative documents:

- (de) Angewandte harmonisierte Normen oder normative Dokumente:
 (fr) Normes harmonisées ou documents normatifs appliqués :
 (bg) Приложени хармонизирани стандарти или нормативни документи:
 (es) Normas armonizadas o documentos normativos aplicados:
 (cs) Aplikované harmonizované normy nebo normativní dokumenty:
 (da) Anvendte harmoniserede standarder eller normative dokumenter:
 (et) Kohaldatud harmoneeritud standardid või normdokumendid:
 (el) Εφαρμοσμένα εναρμονισμένα πρότυπα ή κανονιστικά έγγραφα:
 (hr) Primijenjeni usklađeni standardi ili normativni dokumenti:
 (it) Norme armonizzate o documenti normativi applicati:
 (lt) Taikytini suderintieji standartai ar norminiai dokumentai:
 (lv) Piemērotie saskaņotie standarti vai normatīvie dokumenti:
 (hu) Alkalmazott harmonizált szabványok vagy normatív dokumentumok:
 (nl) Toegepaste geharmoniseerde normen of normatieve documenten:
 (pl) Zastosowane normy zharmonizowane lub dokumenty normatywne:
 (pt) Normas harmonizadas aplicadas ou documentos normativos:
 (ro) Standarde armonizate sau documente normative în vigoare:
 (sk) Použíte harmonizované normy alebo normatívne dokumenty:
 (sl) Uporabljeni harmonizirani standardi ali normativni dokumenti:
 (fi) Sovelletut yhdenmukaistetut standardit tai ohjeelliset asiakirjat:
 (sv) Tillämpade harmoniserade standarder eller normativa dokument:

EN 61010-1	(2017)	EN 300328 V2.2.2	(2019)
EN 61326-1	(2013)	EN 301489-1 V2.2.3	(2019)
EN 61326-2-3	(2013)	EN 301489-17 V3.3.4	(2020)
EN 61326-2-5	(2013)		
EN 63311	(2008)		
EN IEC 63000	(2018)		


 i.V. Dr. Arno Götz
 Department Manager Product Safety
 Maulburg, 12.10.2021
 Endress+Hauser SE+Co. KG

2 About this document

2.1 Symbols



Tip

Indicates additional information.

2.2 Documentation

2.2.1 Designated use

Remote operation of devices via Bluetooth® wireless technology

Suitable for the following device versions

- Device:
 - Gammapilot: FMG50
 - Cerabar: PMC51B, PMP51B, PMC71B, PMP71B
 - Deltabar: PMD55B, PMD75B, PMD78B
- Firmware version: 01.00.zz or higher
- Device version: 1

Incorrect use

The manufacturer is not liable for damage caused by improper or non-designated use.

Under different operating conditions than those described here, protection may be compromised and the correct functioning of the device cannot be guaranteed.

2.3 Registered trademarks

Bluetooth®

The *Bluetooth*® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Endress+Hauser is under license. Other trademarks and trade names are those of their respective owners.

Apple®

Apple, the Apple logo, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

Android®

Android, Google Play and the Google Play logo are trademarks of Google Inc.

3 Radio approvals

3.1 Europe

This device meets the requirements of the Radio Equipment Directive RED 2014/53/EU. The standards specified in the declaration of conformity were used for this purpose.

3.2 Canada and United States

3.2.1 English

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.



Changes or modifications made to this equipment not expressly approved by Endress+Hauser SE+Co. KG may void the FCC authorization to operate this equipment.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3.2.2 Français

Le présent appareil est conforme aux CNR d'industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- L'appareil ne doit pas produire de brouillage, et
- L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



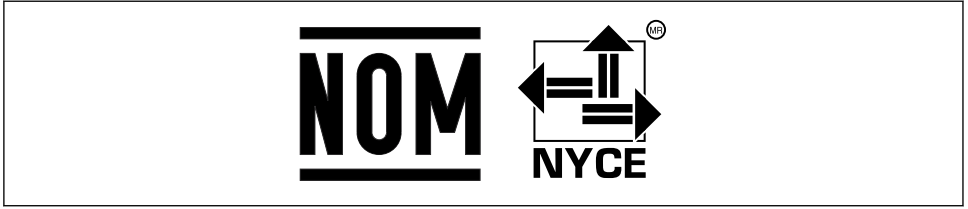
Les changements ou modifications apportés à cet appareil non expressément approuvés par Endress+Hauser SE+Co. KG peuvent annuler l'autorisation FCC d'utiliser cet appareil.

3.3 Mexico

IFETEL notice

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada



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3.4 Japan

Japanese Radio Law and Japanese Telecommunications Business Law Compliance.

This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business Law (電気通信事業法).

This device should not be modified (otherwise the granted designation number will become invalid).

3.5 Taiwan

根據 NCC 低功率電波輻射性電機管理辦法規定：

第十二條經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻

率、加大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立

即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

廠牌 Endress+Hauser

產品型號 VU101

產地德國

製造商 Endress+Hauser SE+Co.KG

3.6 Thailand



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



กสทช. | โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (Inswr)

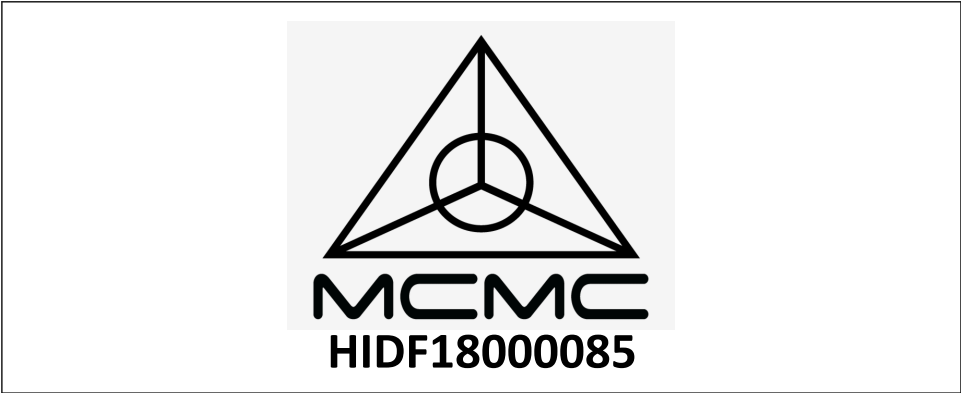
A0042673

3.7 Singapore



A0042672

3.8 Malaysia



A0042675

3.9 Indonesia

Cert. ID: 90242/SDPPI/2023

PLG ID: 4962



A0044216

3.10 Brazil



A0039064

10108-20-07318

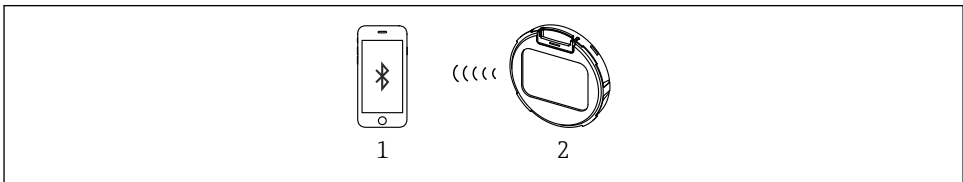
Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

3.11 Other countries

Other national approvals are available on request.

4 Operation options

4.1 Access via Bluetooth® wireless technology



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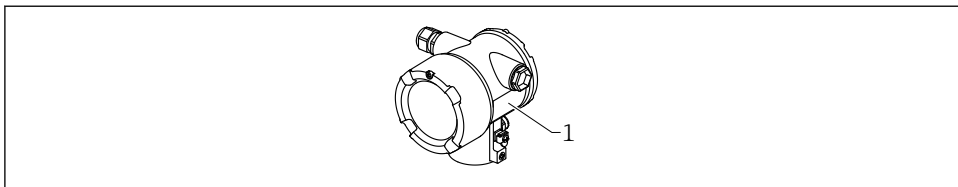
1 Remote operation via Bluetooth® wireless technology

1 Smartphone or tablet with SmartBlue (App)

2 Display with optional Bluetooth function

4.2 Preparation

The serial number of the device serves as the initial password when the connection is established for the first time. The serial number can be found on the nameplate.



A0039981

1 Nameplate

4.3 Technical data

- Maximum free-field range 50 m (165 ft)
- Operation radius with intervisibility: 10 m (33 ft) around the device
- Supply voltage: 3.2 V_{DC} with max. 3.4 V_{DC} and min. 3.1 V_{DC}
- Power consumption: max. 17 mW
- Current consumption: 5 mA
- Pollution degree: 2
- Temperature range: -40 to +85 °C (-40 to +185 °F)
- Relative humidity: operation up to 100 % in the measuring devices
Do not open in a condensing environment!
- Suitable for wet environments, integrated in measuring devices

4.3.1 Operating altitude

As per IEC 61010-1 Ed.3:

- Up to 3 000 m (9 800 ft) above sea level
- Can be extended to 5 000 m (16 400 ft) above sea level if overvoltage protection (OVP) is used, for details see the TI of the device

5 Commissioning

5.1 Requirements

Device requirements

Commissioning via SmartBlue is only possible if a VU101 Bluetooth® display is installed.

System requirements

SmartBlue is available as a download from the Google Play Store for Android devices and from the iTunes Store for iOS devices

- iOS devices: iPhone 5S or higher from iOS11; iPad 5th Generation or higher from iOS11; iPod Touch 6th Generation or higher from iOS11
- Devices with Android: from Android 6.0 and Bluetooth® 4.0

Initial password

- The serial number of the device (on the nameplate) serves as the initial password when the connection is established for the first time.
- If the main electronics module of the device is a spare part, the initial password is the ID number of the Bluetooth display.
The ID number is located on the rear of the display beside the Bluetooth logo.



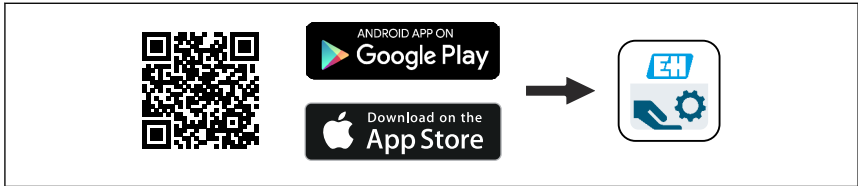
Please note the following:

If the Bluetooth display is removed from one device and installed in another device.

- All the log-in data are only saved in the Bluetooth display and not in the device
- The password changed by the user is also saved in the Bluetooth display
- The Bluetooth and/or background lighting function can depend on the supply voltage to the device. For details on the supply voltage range, **see the Operating Instructions for the entire device.**

5.2 SmartBlue app

1. Scan the QR code or enter "SmartBlue" in the search field of the App Store.



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2 Download link

2. Start SmartBlue.
3. Select device from livelist displayed.
4. Enter the login data:
 - ↳ User name: admin
 - Password: Serial number of the device or ID number of the Bluetooth display
5. Tap the icons for more information.



After logging in for the first time, change the password!



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www.addresses.endress.com
