

IO 351

Installation and operating instructions



IO 351

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English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information



Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:



SIGNAL WORD

Description of the hazard

Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



Observe these instructions for explosion-proof products.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



If these instructions are not observed, it may result in malfunction or damage to the equipment.



Tips and advice that make the work easier.

2. General description

IO 351 is a module for exchange of digital and analog signals between CU 351 and the remaining electrical system via GENibus. IO 351 comes in the variants A and B.

IO 351 A is used for one to three Grundfos pumps with fixed speed.

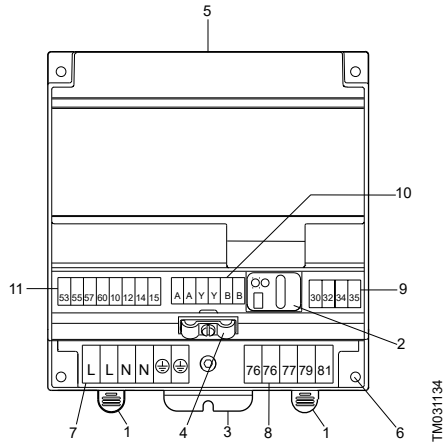
IO 351 B is used for one to six Grundfos pumps with fixed speed and/or pumps controlled by external frequency converters. The module can also be used as an input-output module for communication with monitoring equipment or another external equipment.

WARNING

Death or serious personal injury



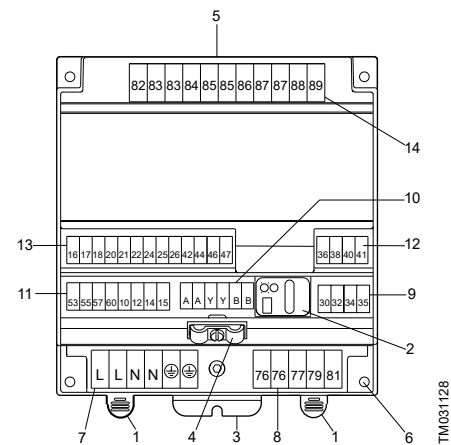
- If IO 351 is used in a manner not specified by the manufacturer, the protection provided by IO 351 may be impaired.



IO 351 A

Pos.	Description
1	DIN rail locking tab
2	Indicator lights and transmitter/receiver for communication with R100
3	Earth connection to cabinet
4	Cable clamp for GENibus cables
5	Nameplate
6	Holes for mounting with screws
7	Terminals for voltage supply
8	Terminals for relay output
9	Terminals for inputs for PTC sensor or thermal switch
10	Terminals for GENibus
11	Terminals for digital and analog inputs

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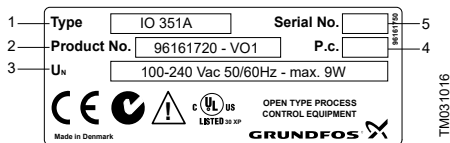


IO 351 B

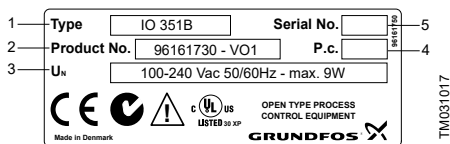
Pos.	Description
1	DIN rail locking tab
2	Indicator lights and transmitter/receiver for communication with R100
3	Earth connection to cabinet
4	Cable clamp for GENIbus cables
5	Nameplate
6	Holes for mounting with screws
7	Terminals for voltage supply
8	Terminals for relay output
9	Terminals for inputs for PTC sensor or thermal switch
10	Terminals for GENIbus
11	Terminals for digital and analog inputs
12	Terminals for Inputs for PTC sensor or thermal switch
13	Terminals for digital inputs and analog outputs
14	Terminals for relay output

3. Identification

The variant (A or B) is stated on the nameplate on the back. It can also be identified by the number of terminal blocks. IO 351 A has five terminal blocks, IO 351 B has eight, see fig. IO 351 A and IO 351 B.



Nameplate IO 351 A



Nameplate IO 351 B

Pos.	Description
1	Type designation
2	Product/version number
3	Permissible supply voltage, frequency and maximum power consumption
4	Production code (year, week)
5	Serial number

Related information

2. General description

3.1 Type key

Example: IO 3 5 1 B

Code	Meaning
IO	Input-output unit
35	Controller series
1	Model number
A	For pumps with fixed speed
B	For pumps with fixed speed and pumps controlled by external frequency converters or as input-output module

4. Installation

IO 351 is only intended for factory wiring.

Before installation check that the

- variant corresponds to the one ordered.
- IO 351 is suitable for the supply voltage and frequency on the installation site.
- IO 351 has not been damaged during transportation.



WARNING Electric shock

Death or serious personal injury

- Before installing the IO 351, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

The installation must be carried out by authorized personnel in accordance with local regulations.

All safety regulations must be observed on the installation site.



WARNING Electric shock

Death or serious personal injury

- The terminals L and N as well as 76-81 and 82-89 may be connected to dangerous contact voltage. External control voltage from other groups may occur.



WARNING Electric shock

Death or serious personal injury

- All wires to units outside the control panel must be of the type H05VV-F according to CENELEC HD21 (to avoid injury from touching wires).

WARNING Electric shock

Death or serious personal injury



- The installation must incorporate a circuit breaker in order to switch off the mains supply. It must be close to the IO 351 and easily accessible for the operator. It must be marked as circuit breaker for IO 351. The circuit breaker must be according to IEC 60947-1 and IEC 60947-3.

WARNING Electric shock

Death or serious personal injury



- The terminals are only separated with basic insulation. Therefore, do not connect a PELV circuit to a terminal adjacent to a terminal connected to live voltage.
- PELV circuits and live wires must be separated with double or reinforced insulation.

4.1 Location

IO 351 is designed for indoor installation. For outdoor installation the IO 351 must be mounted in a suitable panel.

4.2 Enclosure class

In order to reduce the external pollution level to maximum 2, the IO 351 must be installed in a protecting environment with minimum IPX4 enclosure according to IEC 60529. The cabinet must be of a flame-retardant material.

4.3 Terminals

All terminals are suitable for conductors of 0.5 to 2.5 mm² or AWG 20-13.

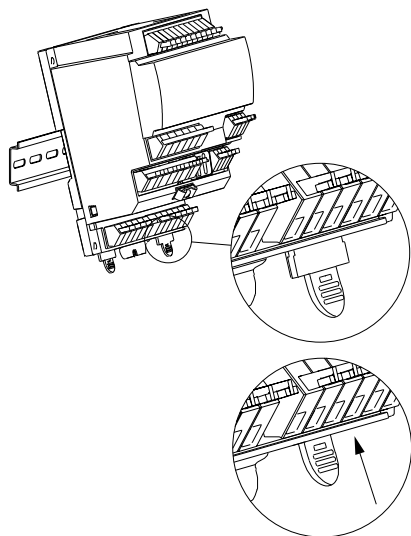
4.4 Mounting

IO 351 is prepared for mounting on a 35 mm DIN rail (EN 50022). Recommended height: 7.5 mm.

Module dimensions and minimum clearance above and under the module, see [14. Dimensions](#).

1. Fit the IO 351 by hooking the top on the DIN rail and holding the bottom against the rail.
2. Push the locking tabs (pos. 1) into the module as shown in fig. Mounting on DIN rail.
3. Connect the conductors, see [9. Overview of inputs and outputs](#).

If the modules are mounted vertically, it is recommended to fit an end stop on the DIN rail below the lowest module.



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Mounting on DIN rail

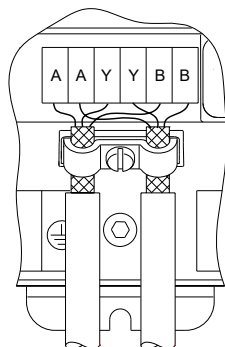
Related information

- 9. Overview of inputs and outputs
- 14. Dimensions

4.5 EMC-correct installation

IO 351 is usually mounted in a panel also containing a CU 351 and frequency converters, contactors and other power equipment. In order to ensure a faultless function, it is very important to install the electronic modules in an EMC-correct way:

- Use screened cables for GENiBus. Connect the screen to the cable clamp of the module forward of the terminals AA, YY and BB.



TM031655

Screen fixed with cable clamp

Any isolating plastic tape between screen and sheath must be removed before mounting the cable in the cable clamp.

Signal conductors for digital and analog inputs and outputs should be screened, i.e. run the screen all the way to the IO 351 and connect it to frame with for instance a cable clamp.

Alternatively, the signal conductors in the panel may be unscreened if the panel is divided into a power and a low-voltage area. Unscreened signal conductors must not run in the power area, but exclusively in ducts in the low-voltage area.

- Do not twist screen ends, as this will destroy the screen effect at high frequencies. Use cable clamps.
- The module construction ensures a good electrical contact to the DIN rail. The DIN rail must therefore have a good connection to functional earth. If the module is mounted without a DIN rail by means of the four mounting holes (pos. 6), there must be a connection to functional earth through the fitting (pos. 3). See fig. IO 351 A or IO 351 B.
- Use toothed washers and galvanically conducting mounting plates.

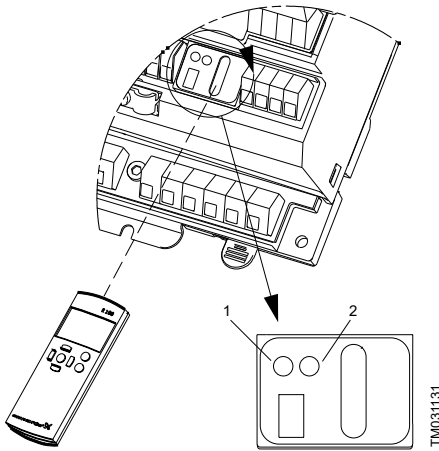
Related information

- 2. General description

4.6 Allocation of address

	Address
1. pump module	31
2. pump module	32
1. input-output module	41
2. input-output module	42

1. Point the R100 against the IO 351 and press [OK]. See fig. R100 and indicator lights.
2. Press [>] to go to the menu **INSTALLATION**.
3. Press [v] to get to **Number** (address).
4. Set the address with [+] and [-].
5. Point the R100 against the IO 351 and press [OK].



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R100 and indicator lights

Pos.	Description
1	Red
2	Green

5. Start-up

Start-up must be carried out by authorized personnel.



Prior to start up, read the installation and operating instructions for the product in question.

6. Functions of indicator lights

See fig. R100 and indicator lights.

Indication	Description
The green indicator light is off.	The electricity supply is interrupted.
The green indicator light flashes slowly (1 Hz).	The module is ready for operation, but there is no communication yet.
The green indicator light is permanently on.	The electricity supply is on, and the module is starting up.
The green indicator light flashes quickly (5 Hz).	The module is ready for operation, and IO 351 and CU 351 communicate.
The red indicator flashes.	IO 351 and R100 communicate.

Related information

4.6 Allocation of address

7. Technical data

Transient voltages typically present on the mains supply are category 2.

Altitude above sea level

Maximum 2000 m.

Ambient temperature

- During operation: 0 °C to +50 °C. (must not be exposed to direct sunlight).
- In stock: -20 °C to +60 °C.
- During transportation: -20 °C to +60 °C.

Relative air humidity

From 5 % to 95 %.

Pollution degree

Category 2.

8. Electrical data

Supply voltage:

1 x 100-240 VAC \pm 10 %, 50/60 Hz, PE (Class 1 equipment).

Back-up fuse:

Maximum 10 A. Both standard fuses as well as quick- and slow-blow fuses are suitable.

Short-circuit protection:

Use fuses that comply with IEC 60127.

USA and Canada (branch circuit protection): Use a UL/CSA listed non-time delay (high capacity) fuse that complies with the UL248 series or an inverse time circuit breaker that complies with UL489.

Fuse types RK1, RKS, J and CC are acceptable.

Power consumption:

Maximum 9 W.

8.1 Digital inputs

Open circuit voltage:	24 VDC
Closed circuit current:	5 mA, DC
Frequency range:	0-4 Hz

8.2 Analog inputs

Input current and voltage:	0-20 mA 4-20 mA 0-10 V
Tolerance:	\pm 3.3 % of full scale
Repetitive accuracy:	\pm 1 % of full scale
Input resistance, current:	< 250 Ω
Input resistance, voltage:	> 50 k Ω \pm 10 %
Supply to sensor:	24 V, maximum 50 mA, short-circuit protected

8.3 Inputs for PTC sensor/thermal switch

Open circuit voltage:	12 VDC \pm 15 %
Closed circuit current:	2.6 mA, DC

8.4 Digital outputs (relay outputs)

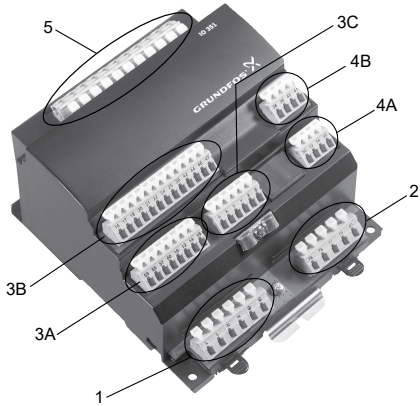
Normally open contacts:	C, NO
Maximum contact load:	240 VAC, 2 A
Minimum contact load:	5 VDC, 10 mA

8.5 Analog outputs

All outputs are short-circuit protected.

Output signal:	0-10 V \pm 2/-0 %
Repetitive accuracy:	\pm 5 % of full scale
Maximum output current:	2 mA

8.6 Terminal groups



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Terminal groups

The terminals of the groups 3A, 3B and 3C are isolated from all other terminal groups by reinforced insulation, 2224 VAC.

Group 1:	Connection of supply voltage
Group 2:	Digital outputs 1-3
Group 3A, B, C:	Digital inputs Analog inputs and outputs
Group 4A, B:	Inputs for PTC sensor or thermal switch
Group 5:	Digital outputs 4-7

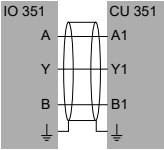

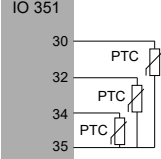
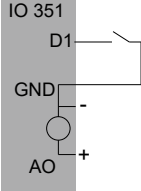
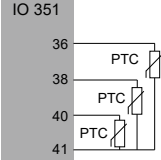
All control terminals in groupe 3 are supplied with PELV voltage (Protective Extra-Low Voltage).

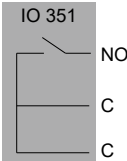
9. Overview of inputs and outputs

DI: Digital input
 DO: Digital output
 AO: Analog output

AI: Analog input
 NO: Normally open contact
 C: Common

Group	Terminal	Designation	Data	Diagram
1	L	Connection of phase conductor	1 x 100-240 VAC ± 10 %, 50/60 Hz	
	L			
	N	Connection of neutral conductor		
	N			
PE	Connection to protective earth			
PE				
2	76	DO 1, 2, 3, C	Relay contact, NO. Maximum load: 240 VAC, 2A Minimum load: 5 VDC, 10 mA	
	76	DO 1, 2, 3, C		
	77	DO 1, NO		
	79	DO 2, NO		
	81	DO 3, NO		
3A	53	+ 24 V	Supply to sensor. Maximum 50 mA Input for analog signal, 0/4-20 mA or 0-10 V	
	55	GND		
	57	AI 1		
	60	AI 2		
All terminals (except mains terminals) must only be connected to voltages not exceeding 16 Vrms and 22.6 Vpeak or 35 VDC.				
3A	10	DI 1	Digital input	
	12	DI 2		
	14	DI 3		
	15	GND		
All terminals (except mains terminals) must only be connected to voltages not exceeding 16 Vrms and 22.6 Vpeak or 35 VDC.				

Group	Terminal	Designation	Data	Diagram
3C	A	RS485 A	GENIbus (internal) (Fix the screen with a cable clamp.)	
	A	RS485 A		
	Y	RS485 GND ¹		
	Y	RS485 GND ¹		
	B	RS485 B		
	B	RS485 B		
		Functional earth		
4A	30	PTC 1	Input for PTC sensor or thermal switch	
	32	PTC 2		
	34	PTC 3		
	35	GND, PTC		
	Make jumpers if no PTC sensor or thermal switch is connected.			
	All terminals (except mains terminals) must only be connected to voltages not exceeding 16 Vrms and 22.6 Vpeak or 35 VDC.			
3B ²	16	DI 4	Digital input	
	17	GND		
	18	AO 4	Analog output, 0-10 V	
	20	DI 5	Digital input	
	21	GND		
	22	AO 5	Analog output, 0-10 V	
	24	DI 6	Digital input	
	25	GND		
	26	AO 6	Analog output	
	42	DI 7		
44	DI 8	Digital input		
46	DI 9			
47	GND			
4B ²	36	PTC 4	Input for PTC sensor or thermal switch	
	38	PTC 5		
	40	PTC 6		
	41	GND, PTC		
	Make jumpers if no PTC sensor or thermal switch is connected.			
	All terminals (except mains terminals) must only be connected to voltages not exceeding 16 Vrms and 22.6 Vpeak or 35 VDC.			

Group	Terminal	Designation	Data	Diagram
	82	DO 4 NO		
	83	DO 4 C		
	83	DO 4 C		
	84	DO 5 NO		
	85	DO 5 C		
5	85	DO 5 C	Relay contact	 <p>IO 351</p> <p>NO</p> <p>C</p> <p>C</p>
	86	DO 6 NO		
	87	DO 6 C		
	87	DO 6 C		
	88	DO 7 NO		
	89	DO 7 C		

1 GND is isolated from other ground connections.

2 Only IO 351 B.

Related information

[4.4 Mounting](#)

10. GENIBus

CU 351 and IO 351 and E-pumps communicate by means of GENIBus.

11. Service

IO 351 cannot be serviced. If the module is faulty, it must be replaced.

Related information

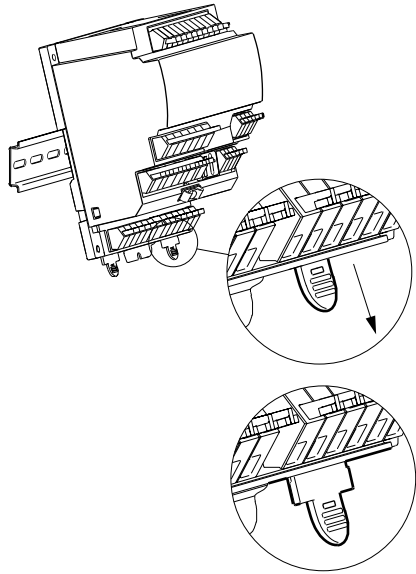
[13. Replacement of IO 351](#)

12. Maintenance

The IO 351 is maintenance-free during normal use and operation. IO 351 must only be cleaned with a dust-free cloth.

13. Replacement of IO 351

1. Switch off the power supply to the IO 351.
2. Switch off the power supply to components with external supply.
3. Mark the individual conductors with the numbers of the corresponding terminals.
4. Disconnect all conductors.
5. Pull the locking tabs free of the rail, see fig. Rail locking tabs. The module can now be lifted off the rail.
6. Mount the new IO 351, see section [4.4 Mounting](#).

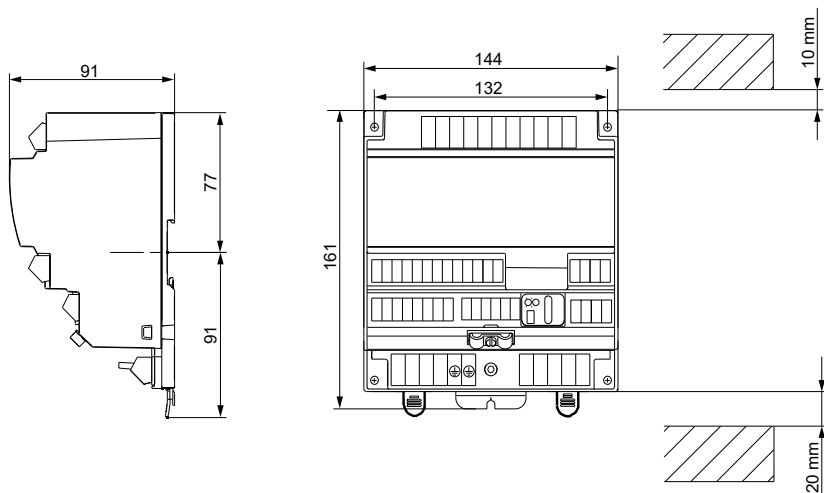


Rail locking tabs

Related information

[4.4 Mounting](#)

14. Dimensions



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Dimensional sketch

Related information

4.4 Mounting

15. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way.

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.



The crossed-out wheeled bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information at www.grundfos.com/product-recycling.

EU declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products IO 351 A, IO 351 B, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky IO 351 A, IO 351 B, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sbližení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne IO 351 A, IO 351 B som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos IO 351 A, IO 351 B a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits IO 351 A, IO 351 B, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi IO 351 A, IO 351 B, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti IO 351 A, IO 351 B, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите IO 351 A, IO 351 B, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte IO 351 A, IO 351 B, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode IO 351 A, IO 351 B, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ liikmesriikides.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet IO 351 A, IO 351 B, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα IO 351 A, IO 351 B, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) IO 351 A, IO 351 B termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktai IO 351 A, IO 351 B, kuriems skirta ši deklaracija, atitinka Žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti IO 351 A, IO 351 B, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty IO 351 A, IO 351 B, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsele IO 351 A, IO 351 B, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия IO 351 A, IO 351 B, к которым относится нижеприведенная декларация, соответствуют нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek IO 351 A, IO 351 B, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan IO 351 A, IO 351 B ürünlerin, AB Üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 IO 351 A, IO 351 B 系列，其制造和性能完全符合以下所列欧盟委员会指令。

KO: EU 적합성 선언

Grundfos는 아래의 선언과 관련된 IO 351 A, IO 351 B 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten IO 351 A, IO 351 B, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que os produtos IO 351 A, IO 351 B, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RS: Deklaracija o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod IO 351 A, IO 351 B, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna IO 351 A, IO 351 B, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsgenomsamt om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty IO 351 A, IO 351 B na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

UA: Декларація відповідності директивам EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби IO 351 A, IO 351 B, до яких відноситься нижченаведена декларація, відповідають директивам EU, переліченим нижче, щодо тотожності законів країн-членів ЕС.

JP: EU 適合宣言

Grundfos は、その責任の下に、IO 351 A, IO 351 B 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod IO 351 A, IO 351 B, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk IO 351 A, IO 351 B, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

MK: Декларација за сообразност на ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека производите IO 351 A, IO 351 B, на кои се однесува долунаведената декларација, се во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene IO 351 A, IO 351 B som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ IO 351 A, IO 351 B ซึ่งเกี่ยวข้องกับคำประกาศนี้ มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: TUYÊN BỐ TUÂN THỦ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm IO 351 A, IO 351 B mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

IS: ESB-samræmisýfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að vörurnar IO 351 A, IO 351 B, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja ESB.

- Low Voltage Directive (2014/35/EU)
Standard used:
EN 61010-1:2010
- EMC Directive (2014/30/EU)
Standard used:
EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011
- RoHS Directive (2011/65/EU and 2015/863/EU)
Standard used:
EN IEC 63000:2018

This EU declaration of conformity is only valid when published as part of the Grundfos installation and

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты IO 351 A, IO 351 B өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk IO 351 A, IO 351 B, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

(EU) إقرار مطابقة الاتحاد الأوروبي :AR

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين IO 351 A, IO 351 B، اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 IO 351 A, IO 351 B 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produktet IO 351 A, IO 351 B, me të cilat lidhet kjo deklaratë, janë në pajtueshmëri me direktivat e Këshillit të renditura më poshtë për përfaqsimin e ligjeve të shteteve anëtare të BE-së.

operating instructions (publication number 96604440).

Bjerringbro, 3rd March 2022



Mikael Wessel

Technical Product Owner, WU Controls
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Manufacturer, person authorised to compile technical file and empowered to sign the EU declaration of conformity.

UK declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

IO 351 A, IO 351 B

- Electrical Equipment (Safety) Regulations 2016
Standards used:
EN 61010-1:2010
- Electromagnetic Compatibility Regulations 2016
Standards used:
EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Standard used:
EN IEC 63000:2018

This UK declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 96604440).

Bjerringbro, 3rd March 2022



Mikael Wessel

Technical Product Owner, WU Controls

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

Manufacturer and person empowered to sign the UK declaration of conformity.

10000340641

Ukrainian declaration of conformity



GB: Ukrainian declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Ukrainian resolutions, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

IO 351 A, IO 351 B

Resolution No. 1067, 2015 - Technical Regulation of Low Voltage Electrical Equipment

Resolution No. 533, 2018 - Amendments to some provisions

Standards used:

ДСТУ EN 61010-1:2014

Resolution No. 1077, 2015 - Technical Regulations on Electromagnetic Compatibility

Resolution No. 533, 2018 - Amendments to some provisions

Standards used:

ДСТУ EN 61000-6-2:2015

ДСТУ EN 61000-6-3:2018

Resolution No. 139, 2017 - Technical Regulations on Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Standards used:

ДСТУ EN IEC 63000:2020

Importer address:

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Email: ukraine@grundfos.com

This Ukrainian declaration of conformity is only valid when accompanying Grundfos instructions.



UA: Українська декларація відповідності

Ми, Grundfos, заявляємо про свою виключну відповідальність за те, що продукція, до якої відноситься ця декларація, відповідає вимогам українським постановам, стандартам та технічним умовам, щодо яких заявлена відповідність, як зазначено нижче:

Дійсно для продуктів Grundfos:

IO 351 A, IO 351 B

Постанова № 1067 від 2015 р., Технічний регламент низьковольтного електричного обладнання

Постанова № 533 від 2018 р., Про внесення змін до деяких положень

Застосовані стандарти:

ДСТУ EN 61010-1:2014

Постанова № 1077 від 2015 р., Технічний регламент з електромагнітної сумісності обладнання

Постанова № 533 від 2018 р., Про внесення змін до деяких положень

Застосовані стандарти:

ДСТУ EN 61000-6-2:2015

ДСТУ EN 61000-6-3:2018

Постанова № 139 від 2017 р., Технічний регламент обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні

Застосовані стандарти:

ДСТУ EN IEC 63000:2020

Адреса імпортера:

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Ця українська декларація відповідності дійсна лише за наявності інструкцій Grundfos.

Bjerringbro, 3rd March 2022

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Mikael Wessel

Technical Product Owner, WU Controls

GB: Manufacturer and person empowered to sign the Ukrainian declaration of conformity

UA: Виробник та особа, уповноважена підписати українську декларацію відповідності

10000442317

Operating manual EAC



Модуль сбора и передачи данных, серии Ю декларирован на соответствие требованиям Технических регламентов Таможенного союза ТР ТС 020/2011 «Электромагнитная совместимость технических средств», ТР ТС 004/2011 «О безопасности низковольтного оборудования».

Декларация о соответствии:

ЕАЭС N RU Д-ДК.Б/08.В.00440/18 сроком действия с 30.11.2018 по 21.11.2023г.

Заявитель: Общество с ограниченной ответственностью «Грундфос Истра». Адрес: 143581, РОССИЯ, Московская область, г. Истра, деревня Лешково, дом 188. Телефон: +7 495 737-91-01, Факс: +7 495 737-91-10.

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