



## Wilo-AlarmControl

**D** Einbau- und Betriebsanleitung

**GB** Installation and operating instructions

**F** Notice de montage et de mise en service

**NL** Inbouw- en bedieningsvoorschriften

**E** Instrucciones de instalación y funcionamiento

**I** Istruzioni di montaggio, uso e manutenzione

**P** Manual de instalação e funcionamento

**GR** Οδηγίες εγκατάστασης και λειτουργίας

**TR** Montaj ve kullanma kilavuzu

**S** Monterings- och skötselanvisning

**FIN** Asennus- ja käyttöohjeet

**H** Beépítési és üzemeltetési utasítás

**PL** Instrukcja montażu i obsługi

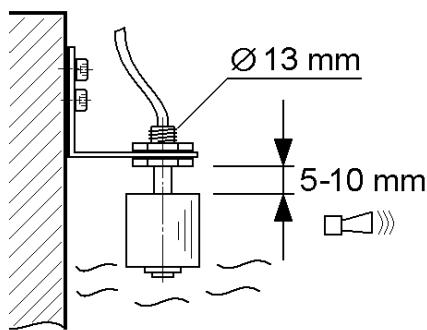
**CZ** Návod k montáži a obsluze

**RUS** Инструкция по монтажу и эксплуатации

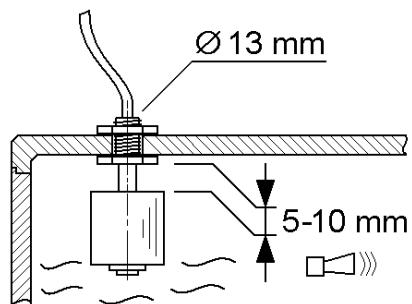
**RO** Instructiuni de montaj și exploatare



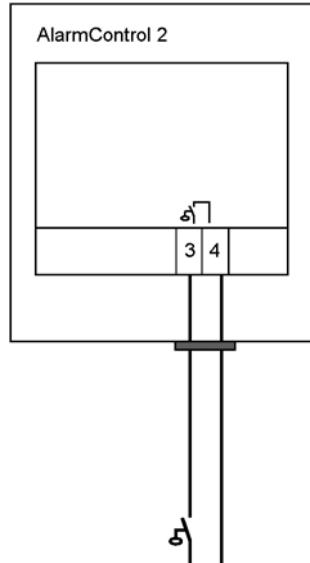
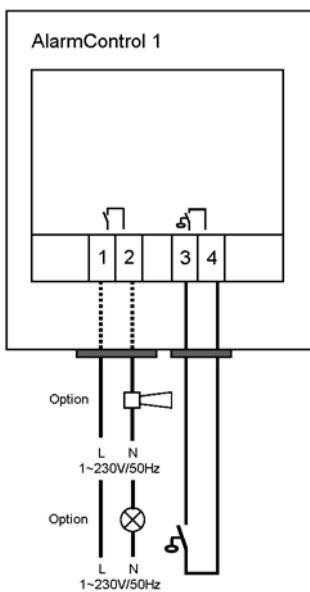
**Fig.1:**



**Fig.2:**



**Fig.3:**





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## 1 General

### 1.1 About this document

These Installation and Operating Instructions are an integral part of the product. They must be kept readily available at the place where the product is installed. Strict adherence to these instructions is a precondition for the proper use and correct operation of the product.

These Installation and Operating Instructions correspond to the relevant version of the product and the underlying safety standards valid at the time of going to print.

## 2 Safety

These operating instructions contain basic information which must be adhered to during installation and operation. For this reason, these operating instructions must, without fail, be read by the service technician and the responsible operator before installation and commissioning .

It is not only the general safety instructions listed under the main point "safety" that must be adhered to but also the special safety instructions with danger symbols included under the following main points.

### 2.1 Designation of information in the operating instructions

**Symbols:**



**General danger symbol**



**Danger due to electrical voltage**



**NOTE: ...**

**Signal words:**

**DANGER!**

**Acutely dangerous situation.**

**Non-observance results in death or the most serious of injuries.**

**WARNING!**

**The user can suffer (serious) injuries. "Warning" implies that (serious) injury to persons is probable if this information is disregarded.**

**CAUTION!**

**There is a risk of damaging the pump/unit. "Caution" implies that damage to the product is likely if the information is disregarded.**

**NOTE:**

Useful information on using the product. It draws attention to possible problems.

**2.2 Personnel qualifications**

The installation personnel must have the appropriate qualification for this work.

**2.3 Danger in event of non-observance of the safety instructions**

Non-observance of the safety instructions can result in risk of injury to persons and damage to pump/unit. Non-observance of the safety instructions can result in the loss of any claims to damages.

In detail, non-observance can, for example, result in the following risks:

- Failure of important pump/unit functions,
- Failure of required maintenance and repair procedures
- Danger to persons from electrical, mechanical and bacteriological influences,
- Property damage

**2.4 Safety instructions for the operator**

The existing directives for accident prevention must be adhered to.

Danger from electrical current must be eliminated. Local directives or general directives [e.g. IEC, VDE etc.] and local power supply companies must be adhered to.

**2.5 Safety instructions for inspection and installation work**

The operator must ensure that all inspection and installation work is carried out by authorised and qualified personnel, who are sufficiently informed from their own detailed study of the operating instructions.

Work to the pump/unit must only be carried out when at a standstill.

**2.6 Unauthorised alteration and spare part production**

Alterations to the pump/unit are only permissible after consultation with the manufacturer. Original spare parts and accessories authorised by the manufacturer ensure safety. The use of other parts can nullify the liability from the results of their usage.

**2.7 Unacceptable operating modes**

The operating safety of the supplied pump/unit is only guaranteed for conventional use in accordance with Section 4 of the operating instructions. The limit values must on no account fall under or exceed those specified in the catalogue/data sheet.

### 3 Transport and interim storage

On receipt of the product, check it for any damage incurred in transit. In the event of damage in transit, the necessary steps must be taken with the carrier before the relevant deadlines.



#### **CAUTION! Danger of damage to the switchgear**

**Danger of damage due to improper handling during transport and storage.**

- **The switchgear must be protected against moisture and mechanical damage caused by blows/impact.**
- **It must not be exposed to temperatures outside the range –20°C to +60°C.**

### 4 Application



#### **WARNING! Danger of personal injury**

**The alarm switchgear is not explosion-protected.**

- **Do not install or use the switchgear in potentially explosive areas.**

The AlarmControl switchgear emits a warning signal if the water level is too high in

- Pump shafts
- Lifting units
- Tanks.

A 9V storage battery (included in the scope of supply) is installed so that it can operate independently of the main power supply.

### 5 Product data

#### 5.1 Technical data

<b>AlarmControl 1-2</b>		
Operating voltage	1 ~ 230 V	
Frequency	50/60 Hz	
Control voltage	12 V DC (unstabilised)	
Standby auxiliary power demand	< 1.5 W	
Alarm contact: (AlarmControl only 1)	Potential-free normally open contact, Max. contact load 1 A (230V AC)	
Socket contact: (AlarmControl only 2)	Max. contact load 16 A (250V AC)	
Protection class	IP 20	
Float switch cable length	3 m (2 x 0.75mm <sup>2</sup> )	
Dimensions:	Length Width Height	112 mm 68 mm 53 mm (without plug)
Housing	ABS	
Temperature range	–20 °C to +60 °C	

## 5.2 Scope of supply

- Alarm switchgear with pre-installed mini-float switch with 3 m of cable
- 9V storage battery (connected in the equipment)
- Installation and operating instructions

## 6 Description and function

The alarm switchgear is used in conjunction with a pre-installed mini-float switch (3 m of cable) for signalling if the water level in lifting units and shafts is too high. When the alarm level is reached, an integrated buzzer emits an acoustic signal.

The storage battery, acoustic signal generator and the alarm circuit are accommodated in a small housing with integrated earthed plug. The alarm switchgear is switched on by plugging it into an earthed socket.

The integrated storage battery is charged automatically.

- The AlarmControl 1 also has a potential-free contact (normally open contact) through which the alarm signal can be transmitted (e.g. flashing light or horn).
- The AlarmControl 2 has an integrated earthed socket, with connected consumers (e.g. refrigerator, condensing boiler or washing machine) that are switched off if the alarm level is reached.

When the level has dropped below the alarm level, the acoustic signal is reset automatically, the AlarmControl 1 potential-free contact is opened and the AlarmControl 2 earthed socket is switched on again.

If there is a power failure, the 9V storage battery makes sure that the alarm switchgear continues to function.

If an alarm is triggered with the storage battery fully charged, the operating time for the AlarmControl 1 is approximately 6 hours or for the AlarmControl 2 approximately 30 hours. A fully discharged storage battery needs to be charged for approximately 100 hours to recover its full capacity.

## 7 Installation and electrical connection

**Installation and electrical connection must be carried out in accordance with local regulations and only by qualified personnel.**

**WARNING! Danger of personal injury**

**The applicable regulations on the prevention of accidents must be observed.**

**WARNING! Danger of electric shock**

**Danger from electrical current must be eliminated.**

**Local directives or general regulations [e.g. IEC, VDE etc.] and those issued by the local power supply company must be adhered to.**

## 7.1 Installation

The alarm switchgear must be installed in a dry, splash-proof and flood-proof place. The site must also be protected from direct sunlight.

Install the mini-float switch in the relevant place so that the alarm is triggered if the emergency level is reached:

Fig. 1: e.g. installation in a shaft

Fig. 2: e.g. installation under a tank cover

Remove the transport protection (protective film) from the mini-float switch.



### **WARNING! Danger of electric shock**

**Pull out the mains plug before opening the equipment.**

If, for installation purposes, it is necessary to disconnect the mini-float switch cable from the alarm switchgear, proceed as follows:

- Undo the 4 screws on the bottom of the housing and remove the top of the housing.
- Remove the strain relief for the mini-float switch cable.
- Disconnect the cable from the connecting terminals.
- Lay the loose cable end accordingly and connect it again via the connecting terminals.
- Refit the strain relief and close the housing.

### 7.1.1 Extending the cable to the mini-float switch

The cable between the housing and the mini-float switch can be extended up to a length of 100 m max.



NOTE: A cable cross-section of  $2 \times 0.75\text{mm}^2$  is recommended. To avoid interference, do not lay in the vicinity of live cables.

## 7.2 Electrical connection



### **WARNING! Danger of electric shock**

**The electrical connection must be made by an electrical engineer approved by the local energy utility in accordance with the local regulations in force [e.g. VDE regulations].**

- The electrical connection is made to a 230 VAC earthed socket
- The type of current and voltage of the mains connection must match those specified on the type plate
- Provide a socket fuse on the mains side (max. 16 A, slow) and also an FI safety switch in accordance with the regulations in force

### 7.2.1 Connection of the potential-free contact (AlarmControl 1 only)



**WARNING! Danger of electric shock**

**Pull out the mains plug before opening the equipment.**

- Undo the 4 screws on the bottom of the housing and remove the top of the housing.
- Take cable (e.g. for flashing light or horn) to the terminals 1 and 2 connection (see Fig. 3).
- Make strain relief and close the housing.

## 8 Commissioning

- Plug alarm switchgear into the socket
- Trigger the mini-float switch
- The acoustic alarm must be audible
- The potential-free contact must be closed (AlarmControl 1 only)
- The connected consumer is switched off (AlarmControl 2 only)

**NOTE:** The AlarmControl 2 socket cut-out is 1 pole. To guarantee complete isolation from the mains, pull the plug of the connected consumer out of the socket.



## 9 Maintenance

**Maintenance and repair work must only be carried out by professionally qualified personnel.**



**WARNING! Danger of electric shock**

**Potential dangers from electrical currents must be eliminated.**

- **During all maintenance and repair work, the pump must be disconnected from the power supply and secured against possible unauthorised reconnection.**

To guarantee reliability in operation, we recommend a function test once a year.

To check the storage battery operation, pull the alarm switchgear out of the socket and operate the float switch. If no acoustic signal is generated, change the storage battery.

## 9.1 Replacing the 9V storage battery



**WARNING! Danger of electric shock**

**Pull out the mains plug before opening the equipment.**

- Undo the 4 screws on the bottom of the housing and remove the top of the housing.
  - Remove the worn storage battery from the connecting clip and replace by a new charged storage battery. Make sure the polarity is correct.
- NOTE: only use rechargeable 9V storage batteries.  
WILO Art. no.: 2522850
- Close the housing cover and tighten the screws.
  - Check the function by raising the float switch.
  - Dispose of the worn storage battery in a responsible manner.

## 10 Faults, causes and remedies

**If the fault cannot be remedied, please get in touch with a local technician or your nearest Wilo customer service point or agent.**

## 11 Spare parts

Spare parts may be ordered through local professional technicians and/or Wilo Customer Service.

To avoid queries and order errors, all data on the rating plate must be given along with every order.

## Subject to technical changes

**D      EG – Konformitätserklärung**  
**GB     EC – Declaration of conformity**  
**F      Déclaration de conformité CE**

Hiermit erklären wir, dass die Bauarten der Baureihe : **AlarmControl 1**  
Herewith, we declare that this product: **AlarmControl 2**  
Par le présent, nous déclarons que cet agrégat :

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entspricht:  
*in its delivered state complies with the following relevant provisions:*  
*est conforme aux dispositions suivants dont il relève:*

**Elektromagnetische Verträglichkeit – Richtlinie**                    **2004/108/EG**  
**Electromagnetic compatibility – directive**  
**Compatibilité électromagnétique- directive**

**Niederspannungsrichtlinie**    **2006/95/EG**  
**Low voltage directive**  
**Directive basse-tension**

und entsprechender nationaler Gesetzgebung.  
*and with the relevant national legislation.*  
*et aux législations nationales les transposant.*

Angewendete harmonisierte Normen, insbesondere:  
*Applied harmonized standards, in particular:*  
*Normes harmonisées, notamment:*

**EN 50178**  
**EN 60730-1**  
**EN 61000-6-2**  
**EN 61000-6-3**  
**EN 61010-1**

Bei einer mit uns nicht abgestimmten technischen Änderung der oben genannten Bauarten, verliert diese Erklärung ihre Gültigkeit.  
If the above mentioned series are technically modified without our approval, this declaration shall no longer be applicable.  
Si les gammes mentionnées ci-dessus sont modifiées sans notre approbation, cette déclaration perdra sa validité.

Dortmund, 15.12.2008

  
i. V.   
Erwin Prieß  
Quality Manager



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44263 Dortmund  
Germany

<b>NL EG-verklaring van overeenstemming</b> Hiermede verklaren wij dat dit aggregaat in de geleverde uitvoering voldoet aan de volgende bepalingen:  Elektromagnetische compatibiliteit 2004/108/EG EG-laagspanningsrichtlijn 2006/95/EG  Gebruikte geharmoniseerde normen, in het bijzonder: <b>1)</b>	<b>I Dichiaraione di conformità CE</b> Con la presente si dichiara che i presenti prodotti sono conformi alle seguenti disposizioni e direttive rilevanti:  Compatibilità elettromagnetica 2004/108/EG Direttiva bassa tensione 2006/95/EG  Norme armonizzate applicate, in particolare: <b>1)</b>	<b>E Declaración de conformidad CE</b> Por la presente declaramos la conformidad del producto en su estado de suministro con las disposiciones pertinentes siguientes:  Directiva sobre compatibilidad electromagnética 2004/108/EG Directiva sobre equipos de baja tensión 2006/95/EG  Normas armonizadas adoptadas, especialmente: <b>1)</b>
<b>P Declaración de Conformidade CE</b> Pela presente, declaramos que esta unidade no seu estado original, está conforme os seguintes requisitos:  Compatibilidade electromagnética 2004/108/EG Directiva de baixa voltagem 2006/95/EG  Normas harmonizadas aplicadas, especialmente: <b>1)</b>	<b>S CE-försäkran</b> Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser:  EG-Elektromagnetisk kompatibilitet – riktlinje 2004/108/EG EG-Lågspänningssdirektiv 2006/95/EG  Tillämpade harmoniseraade normer, i synnerhet: <b>1)</b>	<b>N EU-Overensstemmelseserklæring</b> Vi erklærer hermed at denne enhet i utførelse som levert er i overensstemmelse med følgende relevante bestemmelser:  EG-EMV-Elektromagnetisk kompatibilitet 2004/108/EG EG-Lavspenningsdirektiv 2006/95/EG  Anvendte harmoniserte standarder, særlig: <b>1)</b>
<b>FIN CE-standardinmukaisuusseloste</b> Ilmoitamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyskiä:  Sähkömagneettinen soveltuvuus 2004/108/EG Matalajännite direktiivi: 2006/95/EG  Käytetyt yhteenvonnit standardit, erityisesti: <b>1)</b>	<b>DK EF-overensstemmelseserklæring</b> Vi erklærer hermed, at denne enhed ved levering overholder følgende relevante bestemmelser:  Elektromagnetisk kompatibilitet: 2004/108/EG Lavvolts-direktiv 2006/95/EG  Anvendte harmoniserede standarder, særligt: <b>1)</b>	<b>H EK. Azonossági nyilatkozat</b> Ezennel kijelentjük, hogy az berendezés az alábbiaknak megfelel:  Elektromágneses zavarás/türés: 2004/108/EG Kisfeszültségű berendezések irány-Elve: 2006/95/EG  Felhasznált harmonizált szabványok, különösen: <b>1)</b>
<b>CZ Prohlášení o shodě EU</b> Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením:  Směrnicí EU-EMV 2004/108/EG Směrnicí EU-nízké napětí 2006/95/EG  Použité harmonizační normy, zejména: <b>1)</b>	<b>PL Deklaracja Zgodności CE</b> Niniejszym deklarujemy z pełną odpowiedzialnością że dostarczony wyrob jest zgodny z następującymi dokumentami:  Odpowiedniość elektromagnetyczna 2004/108/EG Normie niskich napięć 2006/95/EG  Wyroby są zgodne ze szczegółowymi normami zharmonizowanymi: <b>1)</b>	<b>RUS Декларация о соответствии Европейским нормам</b> Настоящим документом заявляем, что данный агрегат в его объеме поставки соответствует следующим нормативным документам:  Электромагнитная устойчивость 2004/108/EG Директивы по низковольтному напряжению 2006/95/EG  Используемые согласованные стандарты и нормы, в частности: <b>1)</b>
<b>GR Δήλωση προσαρμογής της Ε.Ε.</b> Δηλώνουμε ότι το προϊόν αυτό ο' αυτή τη κατάσταση παρέδοσης ικανοποιεί τις ακόλουθες διατάξεις:  Ηλεκτρομαγνητική συμβατότητα EG-2004/108/EG Οδηγία χαμηλής τάσης EG-2006/95/EG  Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαιτέρω: <b>1)</b>	<b>TR EC Uygunluk Teyid Belgesi</b> Bu cihazın teslim edildiği şekilde aşağıdaki standartlara uygun olduğunu teyid ederiz:  Elektromanyet Uyumluluk 2004/108/EG Alçak gerilim direktifi 2006/95/EG  Kısmen kullanılan standartlar: <b>1)</b>	<b>1) EN 50178, EN 60730-1, EN 61000-6-2, EN 61000-6-3, EN 61010-1.</b>

  
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  - Produkt- und Anwendungsfragen
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- Versand von Informationsunterlagen

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		- Werksreparaturen		
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		- Inbetriebnahme		
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