

## Miniature alarm device for universal application



**BATTERY OR  
MAINS OPERATION**

### MINAL 182

Miniature alarm device, battery operation

### MINAL 282 BN

Battery/mains operation

Miniature alarm device for universal application  
Devices without sensors

#### Application:

extra loud alarm (more than 100 dB at 1 m distance), hence suitable for decentralised use (e.g. in basement etc.). After connection of various sensors device can be used as water detector, burglar alarm, fire alarm (overheating), heating failure detector, level detector, rain detector etc.

#### Advantages:

mobile, no power consumption unless alarm sounded; connection of any number of sensors, separately or simultaneously; loud alarm that cannot be missed.

#### Specification:

**Device:** rocker switch for tightening and alarm extinguishing, audible piezo-alarm, power consumption in case of alarm approx. 20 mA. Permanent alarm can be sounded for at least approx. 10 h. ABS case 100 x 60 x 29 mm (H x W x D)

**Operating voltage:** 9 to 12 VDC, battery 9 V type IEC 6F22 included, for MINAL 282 BN additional socket for plug-in of external power supply GNG09 for permanent operation. MINAL 182 only suitable for battery operation.

**Sensors:** jack for connection of any sensor type (see special accessories).

**Weight:** approx. 105g (incl. battery, without sensor)

#### Accessories and spare parts:

**GNG 09 - 3.5KS**  
power supply

**GWF-1S**  
plug-in water sensor, 2 m

**GWF-1S / 5m**  
plug-in water sensor, 5 m

**GWF-1S / 10m**  
plug-in water sensor, 10 m

**GAZ-1**  
branch adapter  
(required for each additional water sensor)

**VEKA 2**  
extension cable 2 m

**VEKA 5**  
extension cable 5 m

**VEKA 10**  
extension cable 10 m

## Electrode controller with two signal inputs



**FIELD FRAME**

**2 DIFFERENT MOUNTING FORMS**



**SNAP-ON HOUSING**

### ALSCHU 300 FG

Electrode controller in field frame for wall mounting, device without sensor

### ALSCHU 300 SP

Electrode controller in snap-on housing for DIN rail mounting, device without sensor

#### Application:

Automatic control of drainage pumps and wastewater lifting plants, overflow and low liquid level control, automatic filling and draining of tanks, level control of liquid reservoirs, aquariums, storage tanks, etc.  
The ALSCHU 300 .. is especially suitable for detection of conducting media (water, etc.). It is less applicable for badly or non conducting media (oils or fatty liquids), conducting foaming liquids or media causing electrically isolating deposits on the electrodes.

#### Measuring Method:

The measuring method for level detection is based on the conductive principle, i.e. the electrical conductivity of the media is monitored. If the switching amplifier detects a value below the set conductivity the state "media detected" is output, otherwise "no media". Depending on number and design of the connected level sensors the device can be used for level detection (min-/max-detection) or as 2-point controller.

#### Specification:

**Power supply:** 18 V ... 250 V AC/DC  
wide-range power supply

**Power consumption:** < 2 VA

#### 2 signal inputs:

**Triggering level:** < 80 kΩ

**Response time:** 2 s

#### 1 Relay output:

**Contact:** change-over contact, potential-free

**Switching voltage:** ≤ 250 V AC

**Switching current:** ≤ 5 A (ohmic load)

#### Protection class:

**ALSCHU 300 SP:** IP20

**ALSCHU 300 FG:** IP65

#### Electric connection:

**ALSCHU 300 SP:** onnection via screw-type terminal

**ALSCHU 300 FG:** connection via 3 PG cable glands and screw terminals

**Working temperature:** -20 ... +60 °C

**Storage temperature:** -40 ... +80 °C

**Condensation:** not allowed

#### Housing:

**ALSCHU 300 SP:** snap-on housing for DIN rail mounting  
22.5 x 75 x 110 mm (W x H x D)

**ALSCHU 300 FG:** field frame 100 x 100 x 60 mm  
(W x H x D) without PG cable glands

#### Functions / displays:

**Red / green LED:** display for switching state of relay, switching state of sensors, status (supply) of device

#### Accessories and spare parts:

**GNS-3P**  
3-pole level probe  
(p.r.t. page 148)

**GNS-3P-S..**  
3-pole level probe  
with coating  
(p.r.t. page 148)

**GSS-1**  
level sensor, 2 m cable (floating switch) for electrically non-conducting media

**GNS-1**  
level sensor, 2-pole (stainless steel electrode)

**GSAS-1**  
magnetic contact, plug-in and self-adhesive