

Users manual

ALSCHU 485



1 Specifications

Power supply:	220/240V 50/60Hz (controlling device)
Power consumption:	approx. 1 Watt
Control output:	by outlet in the grounding contact adapter plug
Switching voltage:	is equivalent to the supply voltage
Switching current:	max. 5 A (resistive load)
Breaking capacity:	max. 1200 VA
Dimensions:	Controlling device: 110 x 65 x 45 mm (L x W x H)
EMC:	The device corresponds to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (89/336 EWG).

2 Disposal instructions

The device may not be disposed in the regular domestic waste.
Send the device directly to us (sufficiently stamped), if it should be disposed. We will dispose the device appropriate and environmental friendly.

3 Mode of operation

Switching function I (filling):

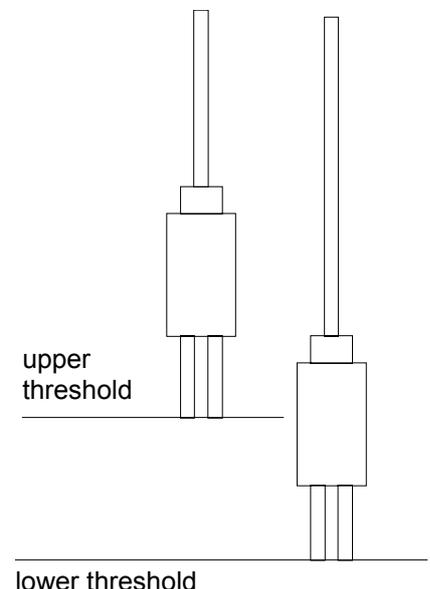
If the fluid-level falls under the MIN-sensor-contact (lower threshold) the power outlet of the controlling device will be conductive and the attached device (e.g. pump) will be turned on. The LED at the controlling device lights.

With the aid of the attached device the tank will be filled. When the fluid-level reaches the MAX-sensor-contact (upper threshold) the power outlet of the controlling device is currentless and therefore the attached device will be turned off again.

Switching function II (depleting):

If the fluid-level overruns the MAX-sensor-contact (upper threshold) the power outlet of the controlling device will be conductive and the attached device (e.g. pump) will be turned on. With the aid of the attached device the tank will be depleted.

When the fluid-level falls under the MIN-sensor-contact (lower threshold) the power outlet of the controlling device is currentless and therefore the attached device will be turned off. The LED from the controlling device lights.



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4 Installation and initiation (may only be effected through adequate skilled personnel!)

1. Turn the power switch of the alarm device (ALSCHU 485) to the off-position and turn the selector to setting "I" (the power outlet from the shockproof adapter plug is currentless).
2. Hang up the alarm device via clamp to the favoured place (possibly choose an inconspicuous, but easily reachable arrangement). The device may only be used in dry rooms.
3. Put up both level probes (respectively floating switches) in the wanted depth and fix them if necessary. The electrodes can be fixed to a hooked in metal stick for example by a lace.
4. Connect the both level electrodes to the controlling device. Here you have to attend that the level probe for the lower threshold has to be connected to the longer connecting cable and the level probe for the upper threshold has to be connected to the shorter connecting cable.
5. The device which has to be switched (e.g. lamp, siren, pump – attend the maximum acceptable breaking capacity! At inductive loads use a RC-element) has to be plugged in the power outlet of the shockproof adapter plug.

Pay attention that the on-off switch (if existing) of the connected device is in the position „ON“ after the initiation, otherwise the control by the ALSCHU 485 is not possible!

6. Plug the grounding contact adapter plug of the alarm device in the power outlet.
7. Switch the mains switch of the alarm device to "ON".
8. Put the selector switch of the device on position "I" (power outlet is conducting). The device which is attached to the power outlet of the shockproof adapter plug has to switch on. If this is not true you have to check whether the attached device is activated or whether it has a correct wiring.
9. The favoured switch function can be chosen by the selector switch now:
 - I - filling
 - II - depleting
10. Both level probes have to be checked for their function during the initiation. For checking alternatively the level probes (respectively floating switches) can be dipped into water and extracted at their metal sticks.

Attention: Under certain circumstances (e.g. saltwater, water with conductive residues etc.) it is possible that a conductive film is generated between the two electrode-bolts at the lower electrode's plastic body, which causes malfunctions. In this case we commend either to use a floating switch (GSS-1S) instead of the lower electrode or to replace both electrodes by a three pole electrode with an appropriate operating distance. Latter is only possible after an alteration of the device by the manufacturer.

Your ALSCHU 485 is ready for operation now

5 Operating advices and service notes

1. **Disconnect the power plug before opening the housing or before working at closed devices! The ALSCHU 485 does not disconnect a connected device at the adapter plug power outlet from the mains! Therefore it is absolute essential for working at a device which is connected to the power outlet, to stake it off and thus to disconnect it from the supply voltage.**
2. The mains switch of the alarm device turns only the device itself off, the adapter plug power outlet will be not disconnected!
3. For a durable and correct function you have to check the function in certain time lags, like every safety device. For this the correct mode of operation of the controlling device and of the sensors has to be checked not less than once a month.
4. The device has to be treated carefully and has to be used corresponding to the preceding specifications (do not throw, do not let it dash against something, etc.).
5. The device may only be used in dry rooms.

6 Safety regulations

This device was designed and tested considering the safety regulations for electronic measuring devices. Faultless operation and reliability in operation of the measuring device can only be assured if the general safety precautions as well as the device-specific security advices in this users manual are considered at the usage of this device.

1. Faultless operation and reliability in operation of the measuring device can only be assured if the device is used within the climatic conditions specified in the chapter „Specifications“.
2. Always disconnect the device from its power supply before opening it. Take care at the installation of the device and circuit points that the unit's contacts are protected against direct contact.
3. Standard regulations for operating and safety for electrical, light and heavy current equipment have to be observed, with particular attention paid to the national safety regulations (e.g. VDE 0100).
4. When connecting the device to other devices (e.g. PC) the protective circuit has to be designed most thoroughly. Possibly internal connections in third-party devices (e.g. connection of ground with protective earth) may lead to undesired voltage potentials.
5. If it is supposed that the device can not be prosecuted riskless the device has to be switched off and has to be assured against further usage through labelling.

The operator's safety can be affected by the device if it for example:

- shows visible damage
- does not work anymore like prescribed
- was stored under inappropriate conditions for a longer time

In case of doubt the device should strictly be send to the manufacturer for repairing /servicing it.

6. **Warning:** Do not use this product at safety systems or as an emergency stop device or in any other applications where failure of this product could result in personal injury or material damage. If this advice will be ignored it can result in serious injury or death of persons as well as material damage.

7 Accessories and spare parts

Float switch:	GSS-1 S	plug-in float switch for electrically non-conductive media (normally open / normally closed function can be selected by the customer)
Level probe:	GNS-1 S	plug-in level probe with 2 stainless steel electrodes
Extension cable:	VEKA 2 / 5 / 10	extension cable 2m / 5m / 10m for the GNS-1S or GSS-1S
Magnetic valve:	GMV-½“ EZL	magnetic valve with energy-saving adapter plug for direct connection to 230V AC, ½“ for direct pipe installation, (maximum 20.0 l/min)

