

## ELECTRODE CONTROLLER / LEVEL CONTROLLER



ALSCHU 300 FG



ALSCHU 300 SP

**ALSCHU 300 FG**

Art. no. 600476

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

**ALSCHU 300 SP**

Art. no. 600479

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.

**Specifications:****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:** IP20 (ALSCHU 300 SP) or IP65 (ALSCHU 300 FG)**Working temperature:** -20 ... +60 °C, <75 % RH (non condensing)**Storage temperature:** -40 ... +80 °C**Condensation:** not allowed**Functions / displays:****Red / green LED:** display for switching state of relay, switching state of sensors, status (supply) of device**Housing:****ALSCHU 300 SP:** 22.5 x 75 x 110 mm (W x H x D)**ALSCHU 300 FG:** 100 x 100 x 60 mm (W x H x D without PG cable glands)**Scope of supply:** Device, manual**Accessories and spare parts:**

Sensors see page 223

## ELECTRODE CONTROLLER / LEVEL CONTROLLER

**ALSCHU 485**

Art. no. 603479

Electrode control device for filling or emptying, incl. two 2-pin. electrodes

**ALSCHU 485 OE**

Art. no. 603807

(as above, but without electrodes - connection for two 2-pin. electrodes)

**ALSCHU 485 OE/3P**

Art. no. 603808

(as above, but without electrodes - connection for 3-pin electrodes)

**Application:**

Automatic control of drain pumps and sewage removal plants, overflow and dry running protection, automatic filling and emptying of containers, basins, tanks, control of liquid level in storage tanks, aquariums, etc.

**Specifications:****Control device:** Flashing LED indicating control state. Selector switch for emptying or filling. Plug-in socket for electrodes.**Power supply:** control device 230 V 50 Hz (approx. 1 VA), automatic by connecting grounded adaptor plug.**Control output:** via grounded adaptor plug with earthing and socket outlet with earthing, electrode control. Direct switching capacity approx. 1200 VA at 230 V 50 Hz (approx. 5 A ohmic load). Extra high protective capacity by external triggering of a contactor or semiconductor relay.**Electrode connection****ALSCHU 485:** 2 x 2.5 mm jack sockets, 2 electrodes with stainless steel pins, plastic body with PVC cable (2 m long) included (any length available upon surcharge)**ALSCHU 485 OE:** 2 x 2.5 mm jack sockets**ALSCHU 485 OE / 3P:** 3-pole screw terminal**Dimensions housing:** 112 x 71 x 48 mm (L x W x D)**Scope of supply:** Device, manual, only ALSCHU 485: 2 electrodes**Accessories and spare parts:**

Sensors see page 223