

ELECTRODE CONTROLLER WITH TWO SIGNAL INPUTS



FIELD FRAME

2 DIFFERENT
MOUNTING FORMS

SNAP-ON HOUSING

**ALSCHU 300 FG**

Product-ID: 600476

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

ALSCHU 300 SP

Product-ID: 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) and IP65 (ALSCHU 300 FG)
Electric connection:	
ALSCHU 300 SP:	connection 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
Functions / displays:	
Red / green LED:	display for switching state of relay, switching state of sensors, status (supply) of device
Housing:	
ALSCHU 300 SP:	snap-on housing for DIN rail mounting
Dimension:	22,5 x 75 x 110 mm (W x H x D)
ALSCHU 300 FG:	field frame
Dimension:	100 x 100 x 60 mm (W x H x D) without PG cable glands
Scope of supply:	device, manual

Accessories and spare parts:

GNS-3P Product-ID: 603170	
3-pole level probe (p.r.t. page 164)	
GNS-3P-SLV Product-ID: 604786	
GNS-3P-SLK Product-ID: 604016	
GNS-3P-SLE Product-ID: 603172	
3-pole level probe with coating	
GSS-1 Product-ID: 606016	
level sensor, 2 m cable (floating switch) for electrically non-conducting media	
GNS-1 Product-ID: 602531	
level sensor, 2-pole (stainless steel electrode)	

3-PIN. PROBE FOR LEVEL
CONTROL (CONDUCTIVE)CAN BE
SHORTENED**GNS-3P-SLV**

Product-ID: 604786

3 electrodes with Poliolefin coating
• cooling water
• all conductive liquids**GNS-3P-SLK**

Product-ID: 604016

3 electrodes with Kynar coating
• food and beverage industry
• chemical industry**GNS-3P-SLE**

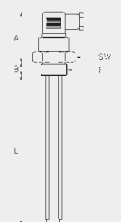
Product-ID: 603172

3 electrodes with PTFE coating
• aggressive conductive liquids**General:**

- Coated electrodes
- Rugged construction, sealed
- Alarm or level regulation or dosage of liquids
- Combined with control electronics (ALSCHU 300, ALSCHU 485 OE / 3P) an accurate liquids level control system

Specifications:

Number of electrodes:	3 pieces
Length of electrodes:	500 mm, other lengths upon request, probes can be cutted to needed length
Electrical connection:	EN 175301-803/A plug
Process connection:	G 1", Polypropylen
Pressure max.:	6 bar
Temperature max.:	+100 °C
Protection class:	IP65
Dimensions:	SW: 40 mm A: 68 mm B: 20 mm L: 500 mm



Scope of supply: Device, manual

suitable for:

Alschu 300 FG, Gewas 300 SP, ALSCHU 485 OE / 3P