

## WATER MONITOR WITH ONE SIGNAL INPUT AND ONE RELAY OUTPUT

## DEVICE FOR MONITORING THE LEVEL (CAPACITIVE)



### GEWAS 300 FG

Product-ID: 600472  
Wasserwächter im Feldgehäuse für Wandmontage  
Gerät ohne Sensor

### GEWAS 300 SP

Product-ID: 600474  
Wasserwächter im Schnappgehäuse für  
Hutschienenmontage, Gerät ohne Sensor

#### Application:

Versatile alarm and protection device for DIN rail or surface mounting with universal input (screw-type terminals) for several external sensors. Sensors with switching threshold <math>< 100 \text{ k}\Omega</math> can be connected (e.g. water probes, floating switches, level probes, magnetic contacts, etc.). In case of an alarm the connected device (e.g. pump, machine) is switched off by a change-over contact. The GEWAS 300 FG additionally provides an alarm. The internal or an external push-button resets the alarm state. The GEWAS 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.

#### Description:

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".

#### Specifications:

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

**Power consumption:** <math>< 2 \text{ VA}</math>

#### 1 signal inputs:

**Triggering level:** <math>< 80 \text{ k}\Omega</math>

**Response time:** 2 s

#### 1 Relay output:

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

**Switching voltage:** <math>\leq 250 \text{ V AC}</math>

**Switching current:** <math>\leq 5 \text{ A}</math> (ohmic load)

#### external alarm output:

**only GEWAS 300 FG:** 8 V, 3 kHz, <math>\leq 5 \text{ mA}</math>

#### Protection class:

**GEWAS 300 SP:** IP20

**GEWAS 300 FG:** IP65

#### Electric connection:

**GEWAS 300 SP:** connection via screw-type terminal

**GEWAS 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, status of battery

**Acoustic alarm:** internal alarm buzzer with battery back-up (only for GEWAS 300 FG)

**Battery back-up:** Monitoring and acoustic alarm are ensured even e.g. during power failures (only for GEWAS 300 FG)

**Alarm reset:** alarm reset by GEWAS 300 SP: connection for external push-button  
GEWAS 300 FG: push-button at front side

#### Housing:

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

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

**Scope of supply:** Device, manual

#### Accessories and spare parts:

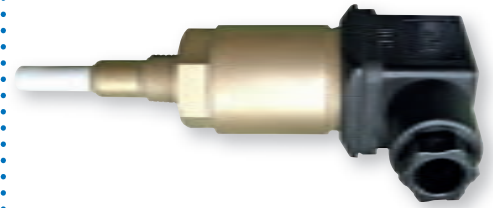
**GWF-1**  
Product-ID: 601712  
water sensor without plug, 2 m cable

**GWF-1/5m**  
Product-ID: 601717  
water sensor without plug, 5 m cable

**GWF-1/10m**  
Product-ID: 601723  
water sensor without plug, 10 m cable

**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)



### GNS-SCV-W

Product-ID: 603168  
Probe for application in water and all conductive liquids

### GNS-SCV-Z

Product-ID: 603169  
Probe for application in oil and all non-conductive liquids

#### General:

The GNS-SCV capacitive probes are the best way to monitor the level condition of liquids as water, oil gasoline and solid products as powder and granular.

- Sealed
- No moving parts
- very reliable

#### Application:

- Water
- Oil
- Gasoline
- Solid products as powder or granular

#### Specifications:

**Power supply:** 12 ... 35 V DC / 5 mA

**Switch output:** NPN no-active / max. 3 W

**Electrical connection:** elbow-type plug acc. to EN 175301-803/A

**Process connection:** 1/4" NPT, Brass

**Switch delay:** 4 s

**Electrode:** Cu-Zn

**Electrode coating:** PTFE

**Electrode length:** 50 mm

#### Switch point:

**40 mm ± 2 mm** vertical mounting

**on the axis of SCV** horizontal mounting

**Pressure max.:** 25 bar

**Temperature max.:** -30 ... +125 °C

#### Dimensions [mm]:

SW	A	B	L0	L1
24	74	10	50	40 ± 2

