

Water monitor with one signal input and one relay output in 2 different mounting forms



GEWAS 300 FG Water monitor in **field frame** for wall mounting – device without sensor

GEWAS 300 SP Water monitor in **snap-on housing** for DIN rail mounting – device without sensor

Applications:

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 <100 kOhm 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: < 2 VA

1 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)

external alarm output:

only GEWAS 300 FG: 8 V, 3 kHz, ≤ 5 mA

Protection class:

ALSCHU 300 SP: IP20
ALSCHU 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

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

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

Accessories:

GWF-1 water sensor without plug, 2m cable
GWF-1/5m water sensor without plug, 5m cable
GWF-1/10m water sensor without plug, 10m cable
GSS-1 level sensor, 2m 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