

# Turbidity controller TURBISWITCH GS4



- Low-cost turbidity limit detector
- 3 adjustable limit ranges (LOW / Medium / HIGH)
- Adjustable delay and hysteresis
- 2 Output relays (N.O. contact)
- 1 Output fault relay (N.O. contact)

## APPLICATIONS

In conjunction with the corresponding sensors TURBISWITCH CP2 or TURBISWITCH GA

Monitoring of:

- Filtering units
- Ultrafiltration
- Reverse osmosis

Monitoring from:

- Centrifuges - Separators
- Condensates
- Processed water - Wastewater

Phase control of:

- Product: raw and clear phase

Sludge level detection in:

- Settling tank
- Sedimentation tanks

And much more...

## DESCRIPTION

TURBISWITCH GS4 in use with a probe CP2 or a cell TURBISWITCH GA is an optical turbidity detector for determining the proportions of solids in a liquid. The output signal (On/Off) is triggered when the detection value is reached. The turbidity measurement is based on the optical attenuation of light beam : loss due to undissolved solids in the liquid.

Light beam in infrared wave lengths makes the measurement insensitive to extraneous light.

When exceeding or falling below the set turbidity value, the output relay of control unit GS4, switches.

### A complete system for turbidity control includes:

- 1 Control unit TURBISWITCH GS4
- + 1 Immersion probe CP2 (data-sheet 425-02)

Or

- 1 Control unit TURBISWITCH GS4
- 1 Cell TURBISWITCH GA.. for in-line measurement (data-sheet 422-01)

The plastic or metallic measuring cells TURBISWITCH GA .. can be installed in pipping from DN15 to DN125.

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Turbidity controller  
**TURBISWITCH GS4**

09-07-2019

D-410.02-EN-AC

**TUR**

**410-02/1**

## TECHNICAL FEATURES

Main supply	GS4 G: Version 100 ... 255 V AC ; 50/60 Hz GS4 D: Version 10 ... 30 V DC and 12 ... 24 V AC
Consumption	1 ... 5 W
Operating temperature	-10 ... +45°C
Relay outputs	<b>2 Relay outputs, potential-free, N.O. contact</b> (Limit exceeded; Below the limit) <b>1 Relay output, fault of system, potential-free, N.O. contact</b>

**When the supply voltage is switched off, all contacts are open.**

Switching power: 250 V AC, 3 A / 30 V DC, 1 A

**Note: The contacts are not protected against overload; Provide an external protective device.**

Housing dimensions:	22.5 x 100 x 122 mm
DIN Rail:	35 x 7.5 mm (DIN EN 60715)
Protection:	IP 40
Terminals:	Screw connectors, max. 1.5 mm <sup>2</sup>
Limit setting:	0... 100% in 3 measuring ranges (depending on the solids content) LOW (by steps of 5%); Medium (by steps of 2%); HIGH (by steps of 1%)
Reset hysteresis:	Adjustable from 1 to 25 % of set limit
Cable length:	Max. 100 m between sensor and control unit
Display:	2-1 / 2-digit 5x7 LED dot matrix display
Settings:	Rotary/ pressure switch on front

**EC Conformity: The instrument meets the legal requirements of the current European Directives**

## CODE NUMBERS AND REFERENCES

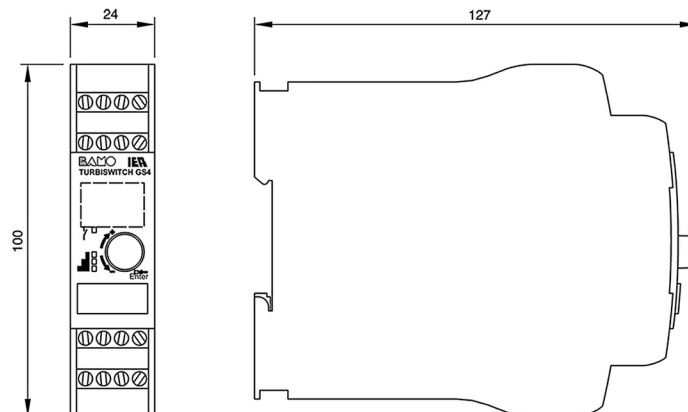
Code	Reference	Description
410 101	TURBISWITCH GS4 G	Control unit 100 ... 255 V AC ; 50/60 Hz
410 102	TURBISWITCH GS4 D	Control unit 10 ... 30 V DC and 12 ... 24 V AC

(Not suitable for previous models TT-GS, TR-GS and CP1)

### Accessories:

Code	Reference	Description
232 122	Cabinet	Wall-mount cabinet, IP 65
410 901	TT-HDR	Emitter for replacement on GA1, GA5, GA11
410 931	TR-HDR	Receiver for replacement on GA1, GA5, GA11

## DIMENSIONS



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**410-02/2**