

# Turbidity controller TURBISWITCH GS5



- Cost-effective turbidity controller
- Adjustable threshold along 3 ranges ( Low / Medium / High )
- Adjustable time delay and hysteresis
- 2 contacts (N.O.), potential free
- 1 fault contact (N.O.), potential free

## APPLICATIONS

To operate with its corresponding probe TURBISWITCH CP5 or TURBISWITCH GA...

Breakthrough monitoring of:

- Filter-presses
- Ultrafiltration
- Reverse osmosis

Monitoring of:

- Centrifuges / separators
- Pollution in condensate
- Process water / waste water

Control of phase separation on:

- Product / clear phase

Sludge level detection in:

- Sedimentation basin
- Sedimentation containers

And more...

## DESCRIPTION

The TURBISWITCH GS5 with one of its associated probes or cells, operates turbidity measurements for evaluation of solid content of a liquid.

The turbidity signal is read out as a limit value (adjustable ) via the controller GS5.

Turbidity measurement is based on the principle of optical attenuation of transmitted light, i.e. depends directly on the amount of undissolved solids in the liquid.

Pulse infrared light makes the measurement not affected by ambient light.

If the measured turbidity value is exceeding or below the trigger point value, the output relay in the TURBISWITCH GS5 is actuated in accordance with the settings.

**A turbidity control system consists of:**

A converter TURBISWITCH GS5  
Plus, an immersion probe CP5 (425-03)

or

A converter TURBISWITCH GS5  
Plus, an in-line measuring cell TURBISWITCH GA . . . (422-01)

TURBISWITCH GA... measuring cells are made of plastic or of stainless steel, and are for installation in piping from DN15 to DN125.

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Turbidity controller  
**TURBISWITCH GS5**

05-07-2022

D-410.03-EN-AD

**TUR**

**410-03/1**

## TECHNICAL FEATURES

Supply power	100...240 V AC 50/60 Hz (TURBISWITCH GS5 G) or 10...30 V DC and und 12...24 V AC (TURBISWITCH GS5 D)
Power consumption	1 ... 5 W
Ambient temperature	-10 ... +45 °C
Output relays	<b>2x Contacts N.O., potential free</b> (Trigger point -turbidity value- to set as limit exceeded or below limit) <b>1x Fault contact N.O., potential free</b>

**All contacts are open when supply power is switched off.**

Output relay switching capacity 250 V AC, 3 A / 30 V DC, 1 A

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

Cabinet: DIN rail mounting	Dimensions 22.5 x 100 x 122 mm
DIN rail EN 60715	Dimensions: 35 x 7.5 mm
Protection	IP40
Connections	On screw terminals, max. 1.5 mm <sup>2</sup>
Limit value setting	0 to 100 % on each 3 measuring ranges (depends of solid content) LOW: per step of 5 %; MEDIUM: per step of 2 %; HIGH: per step of 1 %
Hysteresis	Adjustable from 1 to 25 % of set limit value
Cable, maximum length to sensor	Recommended Max. 100 m
Display	2½", LED matrix display, 5x7 pixel
Settings	Rotary / pushbutton selector on front panel
Switching delay	Adjustable from 0.1 to 9.9 s

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

## CODE NUMBERS AND REFERENCES

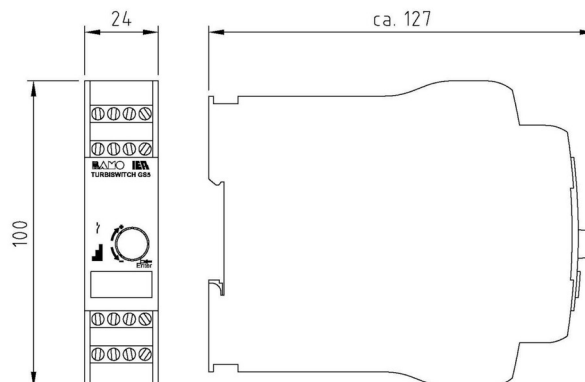
Code	Reference	Description
410 103	TURBISWITCH GS5 G	Turbidity controller, 100...240 V AC 50/60Hz
410 104	TURBISWITCH GS5 D	Turbidity controller, 10...30V DC and 12...24V AC

(Not suitable for the previous probe CP1 series, nor sensors TT-GS and TR-GS cells)

### Accessories:

Code	Reference	Description
232 122	Cabinet	Wall-mount cabinet, IP65
410 901	Emitter	TT-HDR, Emitter for GA1, GA5, GA11
410 931	Receiver	TR-HDR, Receiver for GA1, GA5, GA11

## DIMENSIONS



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**410-03/2**