

Turbidity controller TURBISWITCH GS4



- ON/OFF turbidity Controller
- No effect of day light
- Output: change over contact
- Adjustable timer
- Dysfunction indicator
- Adjustable switching point along 3 ranges

PRINCIPLE

The TURBISWITCH GS4 is designed to be used with our immersion probe CP2 or our turbidity armatures GA1 ... GA5. It provides a contact signal as soon as the turbidity reaches the pre-set value.

A complete system compares continuously the measured value with the pre-set value; it is not pre-calibrated in factory but calibrated on site by end-user. The technician on site configures the instrument using samples to calibrate the limit for switching the output between correct turbid sample and overpass turbidity value.

Most of all products can be monitored, even with high load, small or big particles.

A complete turbidity control system includes:

- 1 turbidity controller TURBISWITCH GS4
- + 1 immersion probe CP2 with built in emitter and receiver (data sheet 425-02)

Or

- 1 turbidity controller TURBISWITCH GS4
- + 1 armature TURBISWITCH GA... for in-line detection or by-pass fitting, with pipes from ND 15 to 125 (data sheet 422-01), with built in emitter and receiver

APPLICATIONS

- Control on phase separation milk/ water
- Control on CIP process
- Survey on separation, centrifugation... process
- Pollution control

DESCRIPTION

The emitter TT-HDR (High Dynamic Resolution) sends an infra-red beam (860 nm) through the fluid to the receiver TR-HDR.

The signal variations due to the turbidity are fully used by the TURBISWITCH GS4 to detect the over passing pre-set value. To avoid false alarms due to air bubbles or accidental excess of turbidity, timers are adjustable from 0.1 to 9.9 seconds (increasing and decreasing turbidity).

BAMO MESURES

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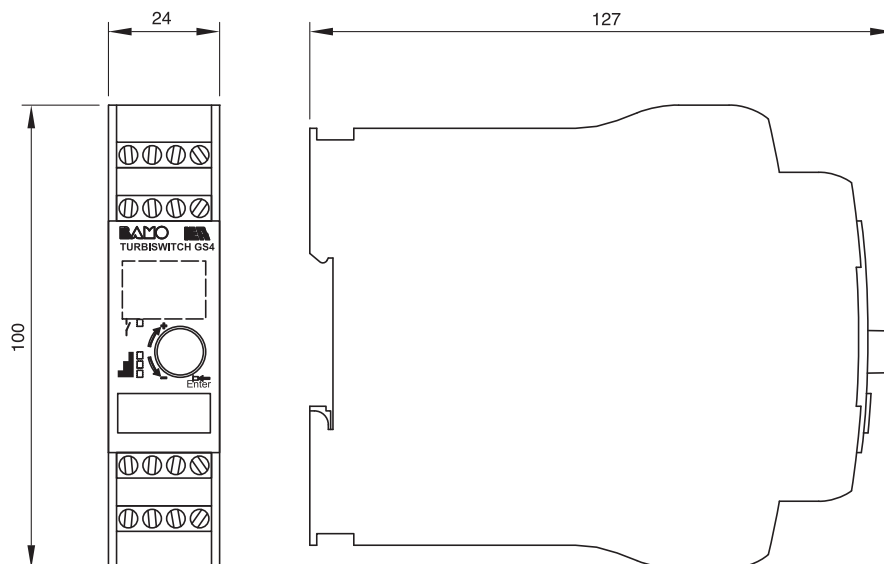
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TECHNICAL FEATURES

Main power supply:	Version 230 V (100...255 V AC – 40/60 Hz Version 24 V (10...30 V DC or 12...24 V AC)
Power consumption:	1...5 VA
Ambient temperature:	-10 ... +45 °C
Range selection:	3 adjustable detection ranges Low: 0 to 1 % full scale (5 % step) Medium: 0 to 10 % full scale (2 % step) High: 0 to 100 % full scale (1 % step)
Relay output	Changeover contact, potential free Switching power: 250 V AC, 3 A, 30 V DC 1 A
Timers	Alarm delay, on decreasing signal, adjustable from 0.1 to 9.9 s Alarm delay, on increasing signal, adjustable from 0.1 to 9.9 s
Hysteresis:	Adjustable from 1 to 25 %
Indicators	Power supply: Green LED Relay status: Blue LED Emitter error: "TT" on display Receiver error: "TR" on display
Housing:	IP40 (DIN EN 50 022) for rail mounting 35 x 7.5 mm



CODE NUMBERS AND REFERENCES

Code	Reference	Description
410 101	TURBISWITCH GS 4	Turbidity controller
410 901	Emitter TT-HDR	Emitter for in line monitoring
410 931	Receiver TR-HDR	Receiver for in line monitoring

Probes: Please see the data sheets 425-02 for immersion probe CP2 and 422-01 for in-line detection or by-pass fitting

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