

In line turbidity transmitter **TRUBOMAT® GAB**



TRUBOMAT GAB 20 or 1000
Stainless steel construction

TRUBOMAT GAB-20
Range 0,01...20 FNU

or

TRUBOMAT GAB-1000
Range 0,1...1000 FNU

- Stainless steel in-line turbidimeter according to ISO 7027
- Turbidity transmitter
- With two IR emitters and one IR receiver
- Two models: 0.01...20 FNU (5 ranges)
 0.1...1000 FNU (5 ranges)
- 4...20mA output signal (4 wires)
- Triclamp or Flange connections

PRINCIPLE

The TRUBOMAT measures the turbidity of liquids using the light absorption and scattered light measuring method.

The inline measuring cell includes two IR emitters and one IR receiver in pulsating light mode (IR measuring method according ISO 7027).

When interconnected, the BAMOPHOX TUR, measuring amplifier, analyses the 4 to 20 mA signal generated by the TRUBOMAT.

DESCRIPTION

The flow-through cell allows the turbidity measurement directly on the line, without sampling system. Its built-in transmitter is convenient for transmitting the signal to installed DCS or PLC or BAMOPHOX TUR. The 4-20 mA corresponds to the DIP Switch selectable range:

TRUBOMAT 20: from 0.01 to 20 FNU in 5 selectable ranges

TRUBOMAT 1000: from 0.1 to 1000 FNU in 5 selectable ranges

APPLICATIONS

- Drinkable and waste water plants, well water monitoring
- Filtration control, flocculants dosage, phase separation
- Pollution survey

EXAMPLES

Distilled water:	0 FNU
Filtered apple juice:	2...4 FNU
River water:	1...4 FNU
Milk (fat 3%):	around 4000 FNU
Filtered Pale ale:	1...6 FNU
Raw beer:	20...400 FNU
Distilled water, 10% milk:	around 20 FNU

BAMO MESURES

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IN LINE
TURBIDITY TRANSMITTER
TRUBOMAT® GAB

04-11-2009

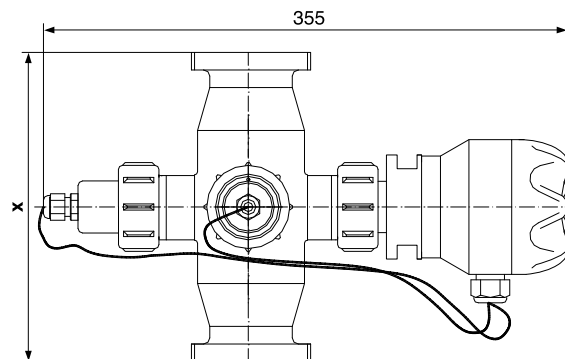
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TUR

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TECHNICAL FEATURES

Terminal housing:	PBT, IP65
Power supply:	10...30 V DC
Power consumption:	0.6 W
Output signal:	4-20 mA
Ambient temperature:	+ 5...+ 45°C
Process temperature:	+ 5...+ 60°C
Accuracy:	± 5% reading, ± 1% full scale (in use)
Maximum pressure:	10 bar as a maximum at 60°C
Status indication:	green LED = correct red LED = failure
Selectable ranges TRUBOMAT 1000:	0.1 to 50 FNU 0.1 to 100 0.1 to 200 0.1 to 500 (or 0.1 to 300*) FNU 100 to 1000 FNU * fittings DN80 & DN100
Selectable ranges TRUBOMAT 20:	0.01 to 1 FNU 0.01 to 2 FNU 0.01 to 5 FNU 0.01 to 10 FNU 0.01 to 20 FNU * fittings DN80 & DN100
Material:	Stainless steel body
Process connections:	Flanges PN10 (DIN 2501) Triclamp DIN 32676



DN 65/25	X = 288
DN 65/32	X = 266
DN 65/40	X = 244
DN 65/50	X = 202
DN 65/65	X = 249
DN 100/80	X = on request
DN 100/100	X = on request

CODE NUMBERS AND REFERENCES

Code	Reference	Designation	
446 123	GAB - 1000 - FF - 3	Stainless steel fixture - Range 0.1 to 1000 FNU - Flange connections PN 10 (DIN 2501)	DN 25
446 124	GAB - 1000 - FF - 4	-	DN 32
446 125	GAB - 1000 - FF - 5	-	DN 40
446 126	GAB - 1000 - FF - 6	-	DN 50
446 127	GAB - 1000 - FF - 7	-	DN 65
446 128	GAB - 1000 - FF - 8	-	DN 80
446 129	GAB - 1000 - FF - 9	-	DN 100
446 223	GAB - 20 - FF - 3	Stainless steel fixture - Range 0.01 to 20 FNU - Flange connections PN 10 (DIN 2501)	DN 25
446 224	GAB - 20 - FF - 4	-	DN 32
446 225	GAB - 20 - FF - 5	-	DN 40
446 226	GAB - 20 - FF - 6	-	DN 50
446 227	GAB - 20 - FF - 7	-	DN 65
446 228	GAB - 20 - FF - 8	-	DN 80
446 229	GAB - 20 - FF - 9	-	DN 100
446 143	GAB - 1000 - TC - 3	Stainless steel fixture - Range 0.1 to 1000 FNU - Flange connections Triclamp (DIN 32676)	DN 25
446 144	GAB - 1000 - TC - 4	-	DN 32
446 145	GAB - 1000 - TC - 5	-	DN 40
446 146	GAB - 1000 - TC - 6	-	DN 50
446 147	GAB - 1000 - TC - 7	-	DN 65
446 148	GAB - 1000 - TC - 8	-	DN 80
446 149	GAB - 1000 - TC - 9	-	DN 100
446 243	GAB - 20 - TC - 3	Stainless steel fixture - Range 0.01 to 20 FNU - Flange connections Triclamp (DIN 32676)	DN 25
446 244	GAB - 20 - TC - 4	-	DN 32
446 245	GAB - 20 - TC - 5	-	DN 40
446 246	GAB - 20 - TC - 6	-	DN 50
446 247	GAB - 20 - TC - 7	-	DN 65
446 248	GAB - 20 - TC - 8	-	DN 80
446 249	GAB - 20 - TC - 9	-	DN 100

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