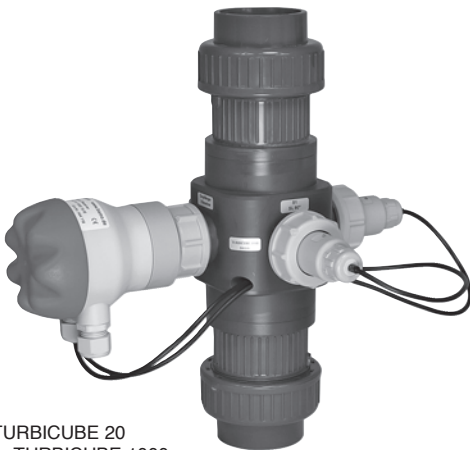


In line turbidity transmitter TURBICUBE



TURBICUBE 20
or TURBICUBE 1000
(PCV measuring cell)

TURBICUBE-20
from 0.01 to 20 FNU

or

TURBICUBE-1000
from 0.1 to 1000 FNU / FAU

- Flow-through in-line turbidimeter acc. ISO 7027
- Turbidity transmitter
with two IR emitters and one IR receiver
- Two models: 0.01...20 FNU (5 ranges)
0.1...1000 FNU / FAU (5 ranges)
- 4-20mA output signal (4 wires)
- Flange or thread connections

PRINCIPLE

The TURBICUBE 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 TURBICUBE.

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:

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

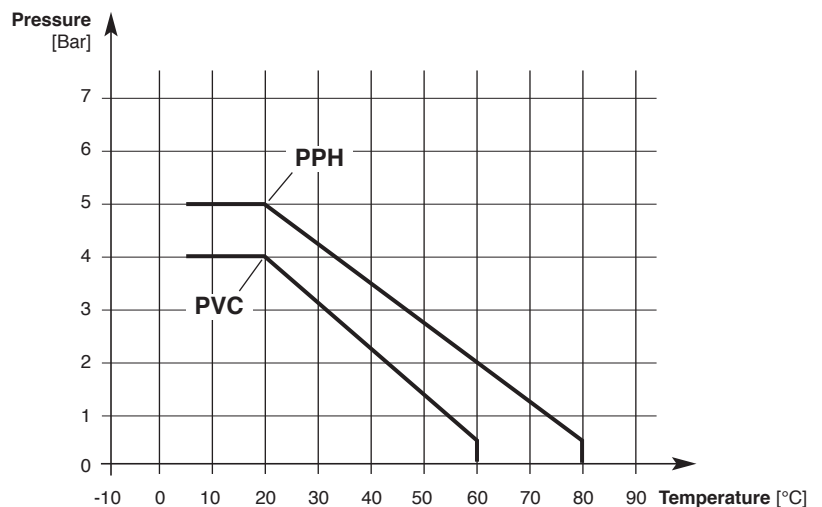
TURBICUBE 1000: from 0.1 to 1000 FNU / FAU in 5 selectable ranges

APPLICATIONS

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



TURBICUBE 20
or TURBICUBE 1000
(PPH measuring cell)



BAMO MESURES

22, Rue de la Voie des Bans - Z.I. de la Gare - 95100 ARGENTEUIL

Tél : (+33) 01 30 25 83 20 - Web : www.bamo.fr

Fax : (+33) 01 34 10 16 05 - E-mail : info@bamo.fr

In line turbidity transmitter
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TECHNICAL FEATURES

Auxiliary power supply:	24 V DC, stabilized (10...30 V DC)
Power consumption:	0.5 W
Output signal:	4-20 mA for connection to the BAMOPHOX TUR 436
Ambient temperature:	+5...+45°C
Process temperature:	+5...+60°C (PVC), +5...+80°C (PPH)
Material:	PVC or PPH housing / Terminal housing plastic PBT, IP 65
Accuracy:	±5% reading, ±1% full scale in use
Resolution:	0.001... 0.2 FNU according to measuring range

Measuring ranges TURBICUBE 1000	ND 20...ND 65:	0.1...50 FNU	0.1...100 FNU	0.1...200 FNU	0.1...500 FNU	100...1000 FAU
	ND 80...ND 100:	0.1...50 FNU	0.1...100 FNU	0.1...200 FNU	0.1...300 FNU	100...1000 FAU

Measuring ranges TURBICUBE 20	ND 20...ND 100:	0.01...1 FNU	0.01...2 FNU	0.01...5 FNU	0.01...10 FNU	0.01...20 FNU
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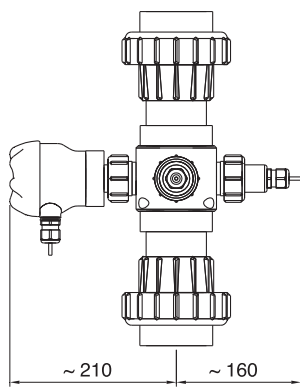
Process connections ND 20...ND 100: PVC or PPH unions socket ends / Flanges ISO 7005, EN 1092, DIN 2501

CE Mark: In accordance with low-voltage directive (2006/95/CE), EMC directives (2004/108/EG)

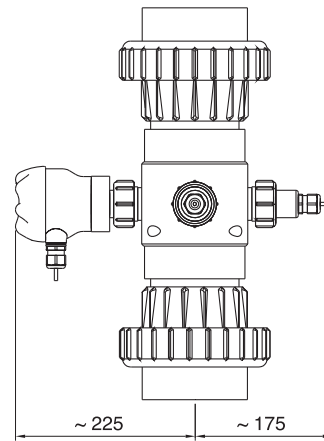
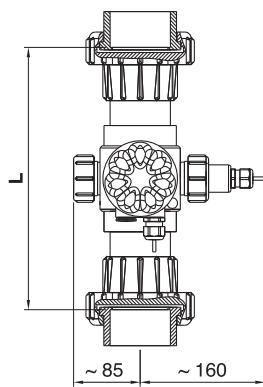
PROCESS CONNECTIONS & DIMENSIONS

ND	(d)	L PVC model with unions socket end	L PVC model with flanges	L PPH model with unions socket end	L PPH model with flanges
ND 20	Ø 25	240	240	300	300
ND 25	Ø 32	240	240	300	300
ND 32	Ø 40	240	240	300	300
ND 40	Ø 50	240	240	300	300
ND 50	Ø 63	262	262	342	300
ND 65	Ø 75	314	314	342	300
ND 80	Ø 90	347	347	394	400
ND 100	Ø 110	347	347	394	400

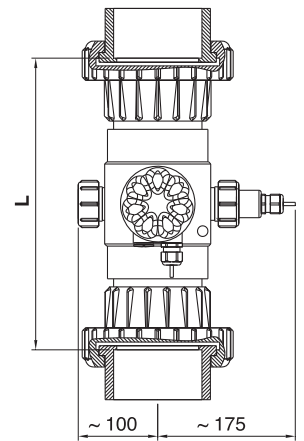
Installation: Only for vertical fully loaded pipes, with ascending flow
Slow down sections 600 mm before device and 400 mm after device



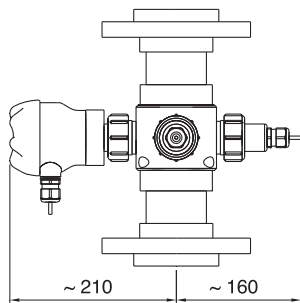
TURBICUBE VV... ND 20 up to ND 65



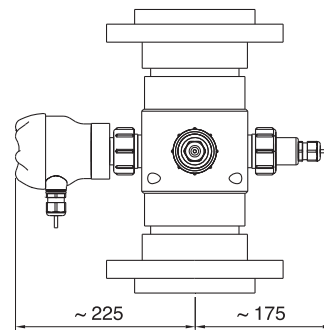
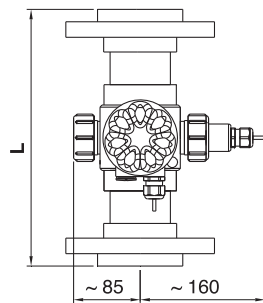
TURBICUBE VV... ND 80 and ND 100



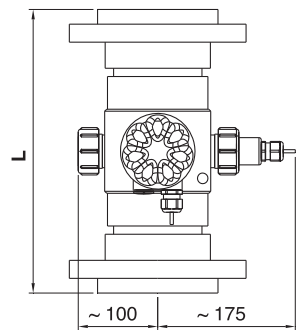
Tolerance: ±2 mm



TURBICUBE FF... ND 20 up to ND 65



TURBICUBE FF... ND 80 and ND 100



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Fax : (+33) 01 34 10 16 05 - E-mail : info@bamo.fr

In line turbidity transmitter
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Code	Reference	Description	
444 112	TURB. - VV - 1000 - 1 - 2 - M	Sensor set PCV – Range 0,1...1000 FNU – Union PCV sockets ends	ND 20
444 113	TURB. - VV - 1000 - 1 - 3 - M	-	ND 25
444 114	TURB. - VV - 1000 - 1 - 4 - M	-	ND 32
444 115	TURB. - VV - 1000 - 1 - 5 - M	-	ND 40
444 116	TURB. - VV - 1000 - 1 - 6 - M	-	ND 50
444 117	TURB. - VV - 1000 - 1 - 7 - M	-	ND 65
444 118	TURB. - VV - 1000 - 1 - 8 - M	-	ND 80
444 119	TURB. - VV - 1000 - 1 - 9 - M	-	ND 100
444 212	TURB. - VV - 20 - 1 - 2 - M	Sensor set PCV – Range 0,01...20 FNU – Union PCV sockets ends	ND 20
444 213	TURB. - VV - 20 - 1 - 3 - M	-	ND 25
444 214	TURB. - VV - 20 - 1 - 4 - M	-	ND 32
444 215	TURB. - VV - 20 - 1 - 5 - M	-	ND 40
444 216	TURB. - VV - 20 - 1 - 6 - M	-	ND 50
444 217	TURB. - VV - 20 - 1 - 7 - M	-	ND 65
444 218	TURB. - VV - 20 - 1 - 8 - M	-	ND 80
444 219	TURB. - VV - 20 - 1 - 9 - M	-	ND 100
444 122	TURB. - FF - 1000 - 1 - 2 - M	Sensor set PCV – Range 0,1...1000 FNU – with flanges	ND 20
444 123	TURB. - FF - 1000 - 1 - 3 - M	-	ND 25
444 124	TURB. - FF - 1000 - 1 - 4 - M	-	ND 32
444 125	TURB. - FF - 1000 - 1 - 5 - M	-	ND 40
444 126	TURB. - FF - 1000 - 1 - 6 - M	-	ND 50
444 127	TURB. - FF - 1000 - 1 - 7 - M	-	ND 65
444 128	TURB. - FF - 1000 - 1 - 8 - M	-	ND 80
444 129	TURB. - FF - 1000 - 1 - 9 - M	-	ND 100
444 222	TURB. - FF - 20 - 1 - 2 - M	Sensor set PCV – Range 0,01...20 FNU – with flanges	ND 20
444 223	TURB. - FF - 20 - 1 - 3 - M	-	ND 25
444 224	TURB. - FF - 20 - 1 - 4 - M	-	ND 32
444 225	TURB. - FF - 20 - 1 - 5 - M	-	ND 40
444 226	TURB. - FF - 20 - 1 - 6 - M	-	ND 50
444 227	TURB. - FF - 20 - 1 - 7 - M	-	ND 65
444 228	TURB. - FF - 20 - 1 - 8 - M	-	ND 80
444 229	TURB. - FF - 20 - 1 - 9 - M	-	ND 100
444 322	TURB. - VV - 1000 - 2 - 2 - M	Sensor set PPH – Range 0,1...1000 FNU – Union PPH sockets ends	ND 20
444 323	TURB. - VV - 1000 - 2 - 3 - M	-	ND 25
444 324	TURB. - VV - 1000 - 2 - 4 - M	-	ND 32
444 325	TURB. - VV - 1000 - 2 - 5 - M	-	ND 40
444 326	TURB. - VV - 1000 - 2 - 6 - M	-	ND 50
444 327	TURB. - VV - 1000 - 2 - 7 - M	-	ND 65
444 328	TURB. - VV - 1000 - 2 - 8 - M	-	ND 80
444 329	TURB. - VV - 1000 - 2 - 9 - M	-	ND 100
444 422	TURB. - VV - 20 - 2 - 2 - M	Sensor set PPH – Range 0,01...20 FNU – Union PPH sockets ends	ND 20
444 423	TURB. - VV - 20 - 2 - 3 - M	-	ND 25
444 424	TURB. - VV - 20 - 2 - 4 - M	-	ND 32
444 425	TURB. - VV - 20 - 2 - 5 - M	-	ND 40
444 426	TURB. - VV - 20 - 2 - 6 - M	-	ND 50
444 427	TURB. - VV - 20 - 2 - 7 - M	-	ND 65
444 428	TURB. - VV - 20 - 2 - 8 - M	-	ND 80
444 429	TURB. - VV - 20 - 2 - 9 - M	-	ND 100
444 332	TURB. - FF - 1000 - 2 - 2 - M	Sensor set PPH – Range 0,1...1000 FNU – with flanges	ND 20
444 333	TURB. - FF - 1000 - 2 - 3 - M	-	ND 25
444 334	TURB. - FF - 1000 - 2 - 4 - M	-	ND 32
444 335	TURB. - FF - 1000 - 2 - 5 - M	-	ND 40
444 336	TURB. - FF - 1000 - 2 - 6 - M	-	ND 50
444 337	TURB. - FF - 1000 - 2 - 7 - M	-	ND 65
444 338	TURB. - FF - 1000 - 2 - 8 - M	-	ND 80
444 339	TURB. - FF - 1000 - 2 - 9 - M	-	ND 100
444 433	TURB. - FF - 20 - 2 - 3 - M	Sensor set PPH – Range 0,01...20 FNU – with flanges	ND 20
444 432	TURB. - FF - 20 - 2 - 2 - M	-	ND 25
444 434	TURB. - FF - 20 - 2 - 4 - M	-	ND 32
444 435	TURB. - FF - 20 - 2 - 5 - M	-	ND 40
444 436	TURB. - FF - 20 - 2 - 6 - M	-	ND 50
444 437	TURB. - FF - 20 - 2 - 7 - M	-	ND 65
444 438	TURB. - FF - 20 - 2 - 8 - M	-	ND 80
444 439	TURB. - FF - 20 - 2 - 9 - M	-	ND 100

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Fax : (+33) 01 34 10 16 05 - E-mail : info@bamo.fr

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