

Архангельск (8182)63-90-72
 Астана (7172)727-132
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 Казань (843)206-01-48
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 Киров (8332)68-02-04
 Краснодар (861)203-40-90
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 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
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 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16

Пермь (342)205-81-47
 Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
 Тверь (4822)63-31-35
 Томск (3822)98-41-53
 Тула (4872)74-02-29
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://reliant.nt-rt.ru/> || rtw@nt-rt.ru

RFTB201 Turbine Flowmeter

- ▶ High pressure
- ▶ Low pressure loss
- ▶ High repeatability and accuracy
- ▶ Pulse / analog output selectable
- ▶ Fast response time



Fluid flowing through RFTB201 push the rotor to revolve. As the rotor blade pass the pickoffs, generate electrical pulses which frequency is proportional to the flow rate. The revolutions per minute and the K-factor (number of pulses/Gallon) make it possible to obtain the flow volume passing through the unit.

RFTB201 series are used to measure medium or lower viscosity media, such as water, light fuel, solvent, hydraulic oil, lubricating oil etc.

Specifications

Nominal Diameter	RFTB201-EO metric male threads with Ermeto 24° cone fittings DN4 to DN32
	RFTB201-OL metric male threads with O-ring face seal ends (ISO8434-3) DN4 to DN40
	RFTB201-NM NPT male thread DN10 to DN40
Applicable Medium	Medium or lower viscosity liquids
Accuracy	Better than $\pm 1\%$ of reading, $\pm 0.5\%$ and $\pm 0.2\%$ selectable
Repeatability	$\pm 0.1\%$ of reading
Pressure Rating	MAX. 420bar
Ambient Temperature	-40 to 85°C
Medium Temperature	-40 to 120°C, -200 to 400°C (High temperature type)
Materials	
Body / Rotor Support	304 stainless steel (316 stainless steel optional)
Turbine	Stainless steel
Shaft	Tungsten carbide/ceramic
Bearing	Stainless steel ball bearing,

RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030



	Tungsten carbide/ceramic journal bearing
Process Connection	BSPP female thread, NPT female thread

Applications

- ▶ Petrochemical/energy industry
- ▶ Hydraulics/lubrication system
- ▶ Oil and Gas
- ▶ Test systems
- ▶ Water treatment

Parameter Table

Type	Flow Range(L/Min.)		DN (mm)	Max. Pressure Rating (bar)			Filtration(micron)	
	Magnetic Pickoff	Encode Pickoff		EO metric male threads with Ermeto 24°	OL metric male threads with O-ring	NM NPT male thread	Journal Bearing	Ball Bearing
RFTB-201-4.5L	0.6 to 4.5	0.6 to 4.5	4	400 (M14×1.5)	400 (M18×1.5)	400 (1/4")	75	--
RFTB-201-10L	1.6 to 10	0.8 to 10	6	400 (M16×1.5)	400 (M22×1.5)	300 (3/8")	75	--
RFTB-201-20L	3 to 20	1.5 to 20	10	400 (M24×1.5)	400 (M27×1.5)	250 (1/2")	100	30
RFTB-201-100L	10 to 100	5 to 100	15	400 (M36×1.5)	300 (M36×2)	250 (3/4")	150	50
RFTB-201-130L	13 to 130	6 to 130	20	250 (M42×2)	250 (M42×2)	250 (1")	150	50
RFTB-201-170L	17 to 170	8 to 170	25	250 (M52×2)	250 (M45×2)	250 (1")	150	70
RFTB-201-250L	25 to 250	12 to 250	32	160 (M52×2)	160 (M60×2)	160 (1")	200	100
RFTB-201-320L	32 to 320	16 to 320	40	—	160 (M64×2)	160 (2")	200	100

Pickoffs & Amplifiers

RFTB201 can be integrated with several different pickoffs, preamplifiers and signal conditioners, such as magnetic pickoffs, encode pickoffs, linear correction preamplifiers, smart control units, to meet specific measurement needs.

Pickoffs

Magnetic pickoffs can sense a ferrous rotor and is ideal for use in all types of Reliant turbine flowmeters. Options include cryogenic, high temperature and explosion proof.

Encode pickoffs offer low speed response, no drag, large sensing distance and can sense non-ferrous metals like aluminum or nonmagnetic stainless steel in addition to ferrous metal. Unlike magnetic pickoff, a carrier frequency pickoff is not a passive device and requires coupling with a signal conditioners/preamplifier. These devices

produce a square wave output versus the analog sine wave of the magnetic pickoff.

Amplifiers

Reliant has developed a line of preamplifiers and signal conditioners for installation with our pickoffs. Our offerings include preamplifiers in several different configurations.

- Pulse output amplifier - Output with square signal, proportional to the flow rate.
- Amplifier with linearized pulse output - Extending the measuring range and with multi-point linearization, with square wave output, frequency proportional to the flow rate.
- Amplifier with analog output - Current analog output or voltage analog output, such as 0 to 10V, 0 to 5V, 0 to 20mA, 4- 20mA.
- Amplifier with linearized analog output - Extended measuring range and with multi-point linearization, analog output.
- Intelligent flow computer - Digital display, analog output / communication RS485/ switch output optional.

Bearings

Bearings are available in three types, stainless steel ball, tungsten carbide journal sleeve and ceramic journal sleeve. Ceramic bearing eliminates adhesive wear and perform well in low or non-lubricating liquids found in cryogenic fluids and water. Ball bearings have the least amount of drag, thus provide the widest capable flow range. Journal bearings create more drag, therefore reducing the turndown capability of the flowmeter.

- **Tungsten carbide journal bearing** - Applicable to low or non-lubricating media, narrow turndown ratio of the flow meter relative with ball bearing.
- **Stainless steel ball bearing** - Applicable to lubricating media, with low friction, lower limit for flow meter and wider turndown ratio.
- **Ceramic journal bearing** - Self-lubricating, applicable to non-lubricating media such as liquid nitrogen, narrow turndown ratio of the flow meter relative with ball bearing.

Electronics

VS - Magnetic pickoffs with pulse output amplifier

RS - Encode pickoffs with pulse output amplifier

Power Supply	12 to 30VDC
Current Consumption	8mA
Outputs	NPN OC output, NPN OC output+pull-up resistor
Reverse Polarity Proof	Yes
Short-circuit Proof	Yes
Operating Temperature	-40 to 120°C
Ambient Temperature	-40 to 85°C
Electrical Connection	M12x1 plug
	DIN43650-A plug (solenoid plug)
Protection Class	M12X1plug: IP67
	DIN43650-A plug: IP65



VH - High temperature magnetic pickoffs with pulse output amplifier

RH - High temperature Encode pickoffs with pulse output amplifier

Ambient Temperature	-40 to 85°C
Operating Temperature	VH -200 to 400°C
	RH -40 to 200°C

◆ Other parameters please refer to the above

Wiring - Pulse Output

Wiring	PNP output	NPN output												
<p>M12x1 plug</p> <table border="1"> <thead> <tr> <th>Signal</th> <th>Plug</th> <th>Cable</th> </tr> </thead> <tbody> <tr> <td>U+</td> <td>1</td> <td>Brown</td> </tr> <tr> <td>Pulse</td> <td>4</td> <td>Black</td> </tr> <tr> <td>U-</td> <td>3</td> <td>Blue</td> </tr> </tbody> </table>	Signal	Plug	Cable	U+	1	Brown	Pulse	4	Black	U-	3	Blue		
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U+	1	Brown												
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U-	3	Blue												
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Signal	Plug													
U+	1													
Pulse	3													
U-	2													

Electronics

VS - Magnetic pickoffs with pulse output amplifier

RS - Encode pickoffs with pulse output amplifier

Power Supply	12 to 30VDC
Current Consumption	8mA
Outputs	NPN OC output, NPN OC output+pull-up resistor
Reverse Polarity Proof	Yes
Short-circuit Proof	Yes
Operating Temperature	-40 to 120°C
Ambient Temperature	-40 to 85°C
Electrical Connection	M12x1plug
	DIN43650-A plug (solenoid plug)
Protection Class	M12X1plug: IP67
	DIN43650-A plug: IP65



VH - High temperature magnetic pickoffs with pulse output amplifier

RH - High temperature Encode pickoffs with pulse output amplifier

Ambient Temperature	-40 to 85°C
Operating Temperature	VH -200 to 400°C
	RH -40 to 200°C

◆ Other parameters please refer to the above

Wiring - Pulse Output

Wiring	PNP output	NPN output												
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Signal	Plug													
U+	1													
Pulse	3													
U-	2													

RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030



VA - Magnetic pickoffs with analog output amplifier

RA - Encode pickoffs with analog output amplifier

Power Supply	12 to 30VDC
Current Consumption	Voltage analog output: 7mA
	Current analog output: <12mA
Outputs	0 to 10V
	3-wire 0 to 20mA or 4 to 20mA
Reverse Polarity Proof	Yes
Short-circuit Proof	Yes
Operating Temperature	-40 to 120°C
Ambient Temperature	-40 to 85°C
Electrical Connection	M12x1plug
	DIN43650-A plug (solenoid plug)
Protection Class	M12X1plug: IP67
	DIN43650-A plug: IP65



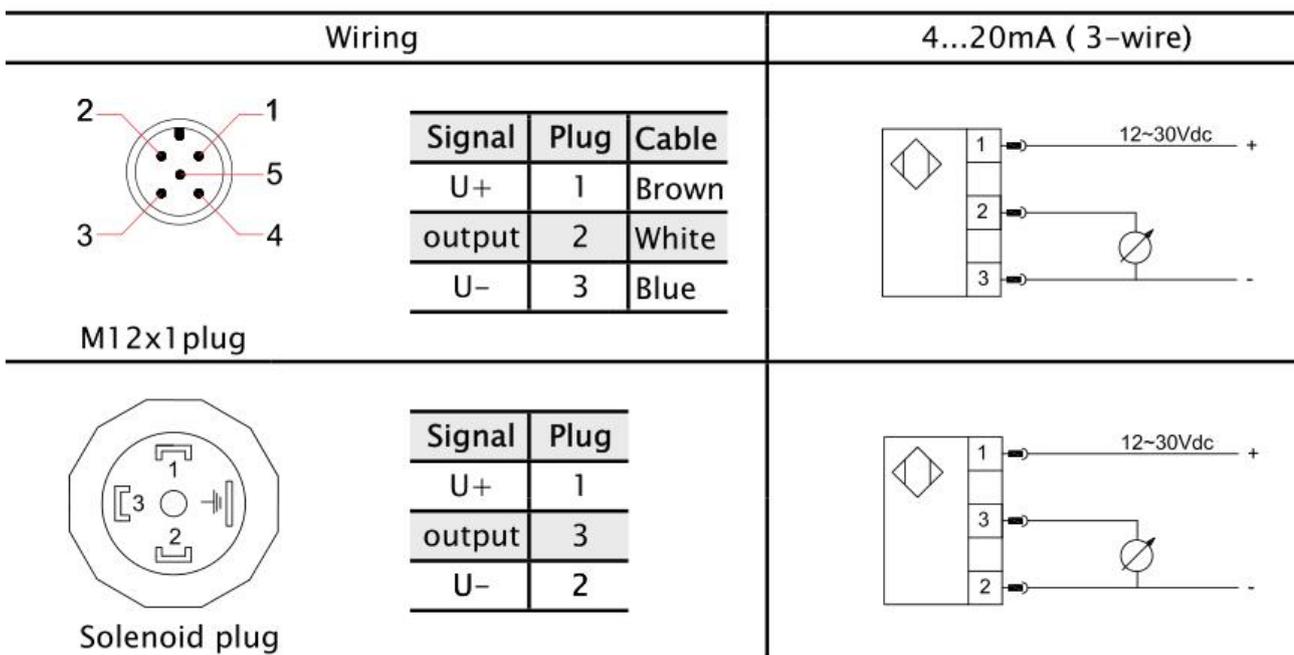
VAH - High temperature magnetic pickoffs with analog output amplifier

RAH - High temperature encode pickoffs with analog output amplifier

Ambient Temperature	-40 to 85°C
Operating Temperature	VAH -200 to 400°C
	RAH -40 to 200°C

◆ Other parameters please refer to the above

Wiring - Analog Output : 3-wiring 4...20mA



DWEVS - Smart control unit with magnetic pickoffs
 DWERS - Smart control unit with carrier frequency pickoffs

Power Supply (Us)	12 to 30VDC
Current Consumption	<20mA
Switching Output	
Output	Push-pull (compatible with PNP / NPN)
Current	500mA (power supply 24VDC)
Current Analog Output	
Output	3 2-wire 4 to 20mA programmable
Load RA (Ω)	RA ≤ (Us-10) / 0.02
Linearity	≤±0.5% of reading
Voltage Analog Output	
Output	3-wire 0 to 5V/1 to 5V programmable
Load RA (Ω)	RA ≥ 5KΩ
Linearity	≤±0.5% of reading
Accuracy	≤±0.5% of reading
Temperature	
Operating Temperature	-40 to 120°C
Ambient/Storage	-40 to 85°C
Display	8mm height, red 4-digit LED
Material	
Display Head	304 stainless steel (316L customized) + PP
Housing	304 stainless steel (316L customized)
Protection Class	IP67
Electrical Connection	M12×1plug



FLOW

DWEVH - Smart control unit with high temperature magnetic pickoffs

RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0
Doc. ID: RNT20191030

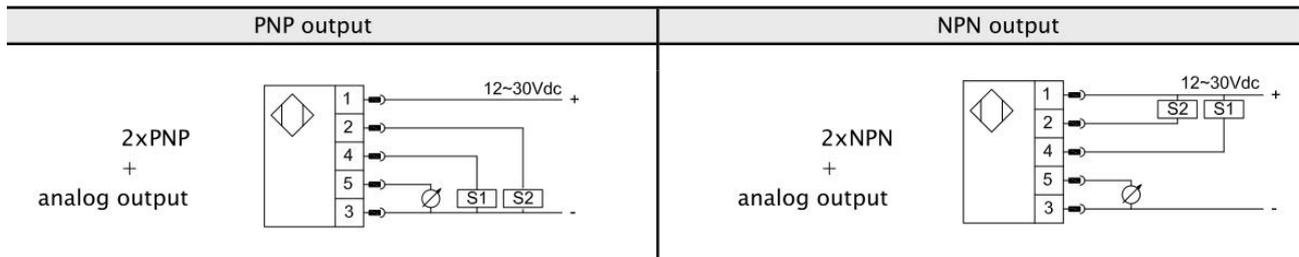


DWERH - Smart control unit with high temperature encode pickoffs

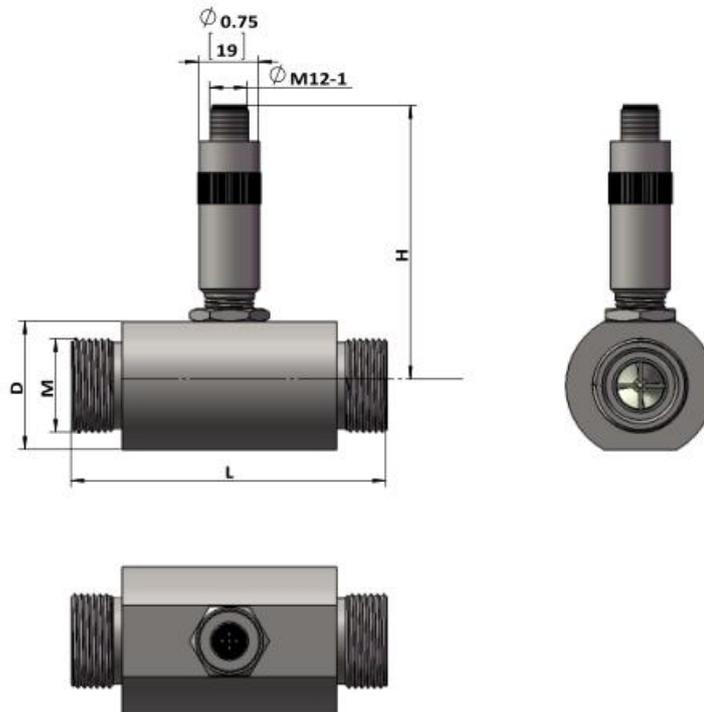
Ambient Temperature	-40 to 85°C
Operating Temperature	-40 to 200°C

◆ Other parameters please refer to the above

Wiring



Dimensions of RFTB201-EO

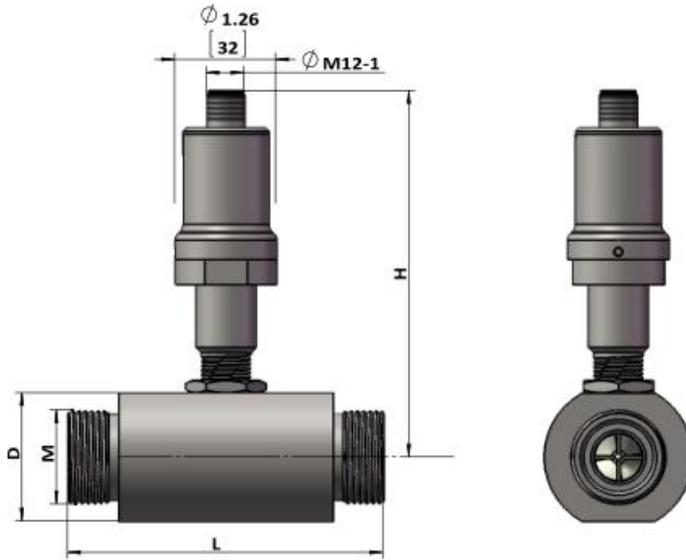


M12X1plug for pulse output

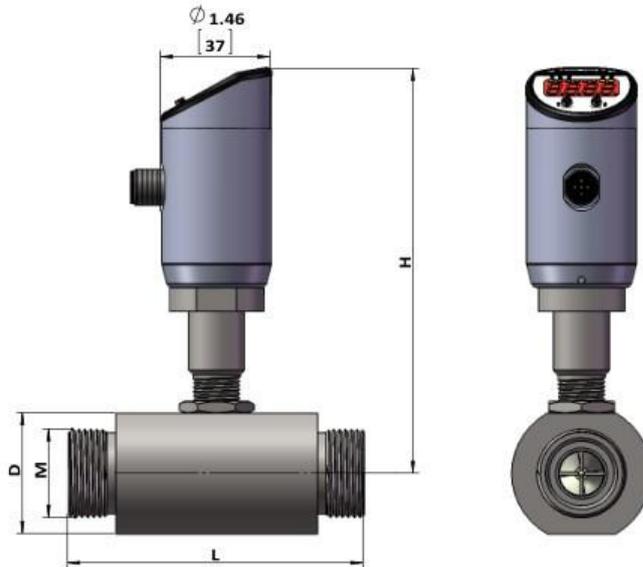
RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030

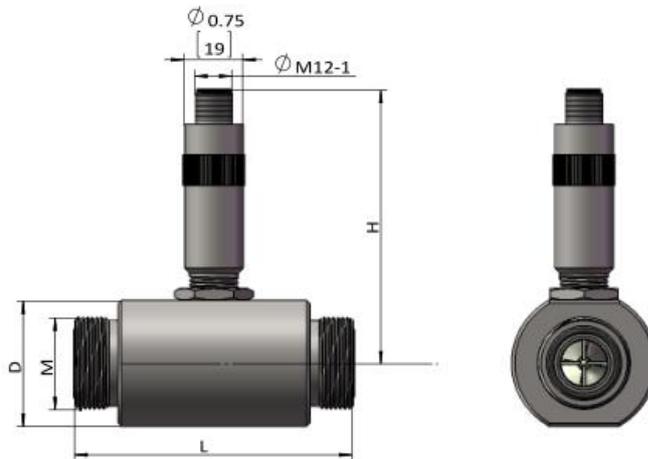


M12X1 plug for analog output

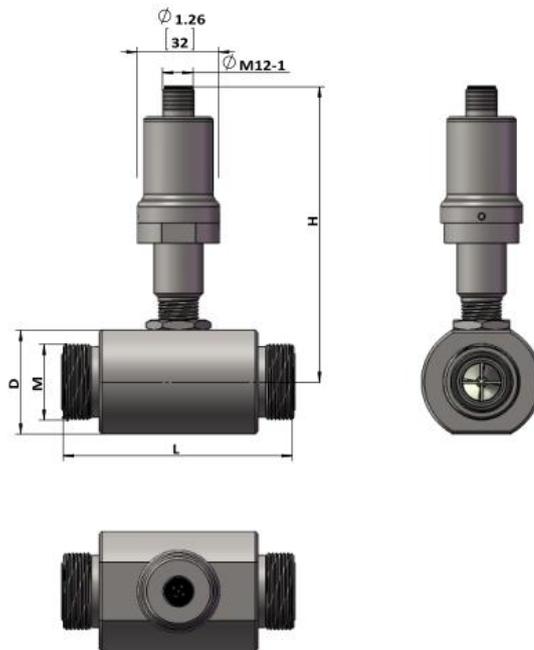


Smart control unit

Dimensions of RFTB201-OL



M12X1plug for pulse output

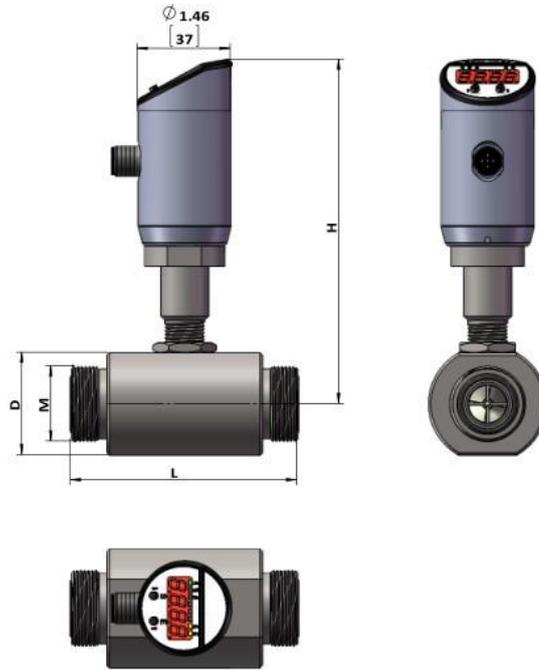


M12X1plug for analog output

RFTB201 Turbine Flowmeter

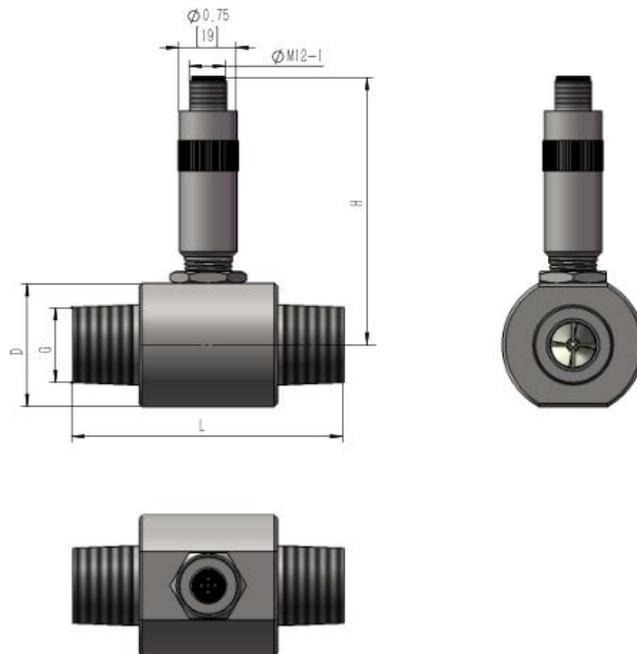
Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030



Smart control unit

Dimensions of RFTB201-NM

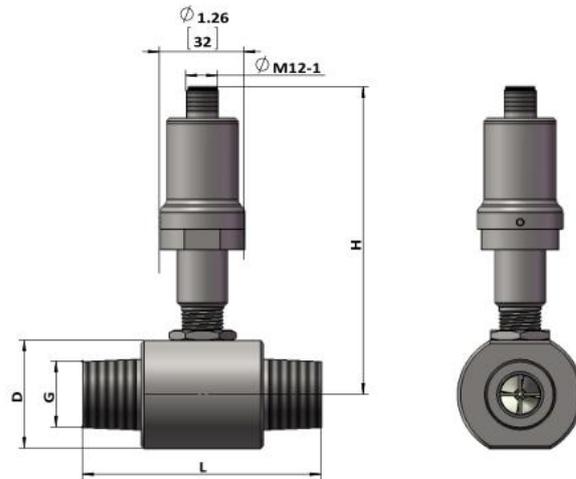


M12X1 plug for pulse output

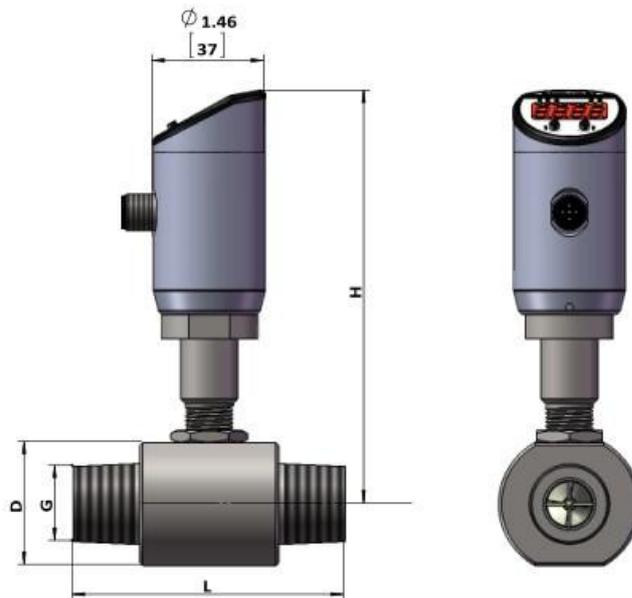
RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030



M12X1 plug for analog output



Smart control unit

RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030

**Dimensions in inches (mm)**

...EO (Nominal Dia.)	L inch (mm)	D inch (mm)	H for pulse output inch (mm)	H for analog output inch (mm)	H for smart control unit inch (mm)
1/4" (DN4)	1.97 (50)	1.3 (33)	3.35(85)	5.16 (131)	5.31 (135)
1/4" (DN6)	1.97 (50)	1.3 (33)	3.39 (86)	5.2 (132)	5.35 (136)
3/8" (DN10)	2.01 (51)	1.42 (36)	3.46 (88)	5.28 (134)	5.43 (138)
1/2" (DN15)	3.98 (101)	1.85 (47)	3.54(90)	5.35 (136)	5.51 (140)
3/4" (DN20)	4.76 (121)	2.05 (52)	3.66 (93)	5.47 (139)	5.63 (143)
1" (DN25)	5.12 (130)	2.2 (56)	3.74 (95)	5.55 (141)	5.71 (145)
1-1/4" (DN32)	6.38 (162)	2.6 (66)	3.9 (99)	5.71(145)	5.87 (149)

...OL / ...NM (Nominal Dia.)	L inch (mm)	D inch (mm)	H for pulse output inch (mm)	H for analog output inch (mm)	H for smart control unit inch (mm)
1/4" (DN4)	1.73 (44)	1.3 (33)	3.35(85)	5.16 (131)	5.31 (135)
1/4" (DN6)	1.73 (44)	1.3 (33)	3.39 (86)	5.2 (132)	5.35 (136)
3/8" (DN10)	1.77 (45)	1.42 (36)	3.46 (88)	5.28 (134)	5.43 (138)
1/2" (DN15)	3.54 (90)	1.85 (47)	3.54(90)	5.35 (136)	5.51 (140)
3/4" (DN20)	4.21 (107)	2.05 (52)	3.66 (93)	5.47 (139)	5.63 (143)
1 (DN25)	4.45 (113)	2.2 (56)	3.74 (95)	5.55 (141)	5.71 (145)
1-1/4" (DN32)	5.6 (142)	2.6 (66)	3.9 (99)	5.71(145)	5.87 (149)
1-1/2" (DN40)	6.5 (165)	3.0 (76)	4.06 (103)	5.87 (149)	6.02 (153)

RFTB201 Turbine Flowmeter

Oct. 2019, Rev. RTB1-1.0

Doc. ID: RNT20191030



Order Code

<p>RFTB201 : Turbine flow meter</p> <p>Thread type</p> <p>EO: Metric male threads with Ermeto 24 cone fittings</p> <p>OL: Metric male threads with O-ring face seal ends (ISO8434-3)</p> <p>NM: NPT male thread</p> <p>Nominal diameter</p> <p>04 : DN4 thread size G1/4 or 1/4"NPT</p> <p>06 : DN6 thread size G1/4 or 1/4"NPT</p> <p>10 : DN10 thread size G3/8 or 3/8"NPT</p> <p>15 : DN15 thread size G1/2 or 1/2"NPT</p> <p>20 : DN20 thread size G3/4 or 3/4"NPT</p> <p>25 : DN25 thread size G1 or 1"NPT</p> <p>32 : DN32 thread size G1-1/4 or 1-1/4"NPT</p> <p>40 : DN40 thread size G1-1/2 or 1-1/2"NPT</p> <p>Bearing</p> <p>BB : Stainless steel ball bearing (unavailable for DN4 and DN6)</p> <p>TC : Tungsten carbide journal bearing</p> <p>CC : Ceramic journal bearing</p>									
RFTB201	EO	15	BB	B	170L	1	VS	-	H
<p>Accuracy</p> <p>A : 0.2% of reading C : 1% of reading</p> <p>B : 0.5% of reading S : Customized</p> <p>Measuring range (see technical data for details)</p> <p>4.5L : Upper flow limit 4.5L/min 130L : Upper flow limit 130L/min</p> <p>10L : Upper flow limit 10L/min 170L : Upper flow limit 170L/min</p> <p>20L : Upper flow limit 20L/min 250L : Upper flow limit 250L/min</p> <p>100L : Upper flow limit 100L/min 320L : Upper flow limit 320L/min</p> <p>Turndown ratio (Upper flow limit : lower flow limit)</p> <p>1 : 10:1 3 : 30:1 5 : 50:1</p> <p>2 : 20:1 4 : 40:1</p> <p>Note: Meter with wide turndown ratio (40:1 or 50:1) should be used with encode pickoffs and stainless steel ball bearing.</p> <p>Pickoffs type (see technical data for details)</p> <p>VS : magnetic pickoffs wit pulse output amplifier</p> <p>VH : High temperature magnetic pickoffs with pulse output amplifier</p> <p>VA : magnetic pickoffs with analog output amplifier</p> <p>VAH : High temperature magnetic pickoffs with analog output amplifier</p> <p>RS: Encode pickoffs with pulse output amplifier</p> <p>RH: High temperature encode pickoffs with pulse output amplifier</p> <p>RA: Encode pickoffs with analog output amplifier</p> <p>RAH: High temperature encode pickoffs with analog output amplifier</p> <p>DWEVS : Smart control unit with magnetic pickoffs</p> <p>DWEVH : Smart control unit with high temperature magnetic pickoffs</p> <p>DWERS : Smart control unit with encode pickoffs</p> <p>DWERH : Smart control unit with high temperature encode pickoffs</p> <p>Outputs</p> <p>- : Pulse A420 : 4 to 20mA V005 : 0 to 5V</p> <p>A020 : 0 to 20mA V010 : 0 to 10V V105 : 1 to 5V</p> <p>Electrical connection</p> <p>H : DIN43650--A plug (unavailable for DWE series)</p> <p>S : M12X1 plug</p>									

Electronic Evaluation Units

MST300 - Ratemeter, totalizer	MST200 - Ratemeter, batcher, totalizer
	
Case dimensions 72 x 36 x 97 mm	Case dimensions 96 x 48 x 100 mm
6-digit LED display	6-digit LED display
Flow meter/totalizer	Flow meter/totalizer/batcher
Flow rate/total flow display	Flow rate/total flow display
1 pulse input	1 pulse counting input + 3 control inputs
1 relay (or OC) output	0/2 or 4 Relay / OC outputs
Power supply output 24V DC	Analog output optional
RS-485 / Modbus RTU	Power supply output 24V DC
	RS-485 / Modbus RTU

MST300 - Ratemeter, totalizer	MST200 - Ratemeter, batcher, totalizer
	
Protection class IP67	Max. 72 inputs with the flow/temperature/pressure/level

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 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16

Пермь (342)205-81-47
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Сургут (3462)77-98-35
 Тверь (4822)63-31-35
 Томск (3822)98-41-53
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 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://reliant.nt-rt.ru/> || rtw@nt-rt.ru

RFTB201 Turbine Flowmeter

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Case dimensions 110 x 80 x 67mm	Optional outputs with 24 analog outputs/72 SSR outputs
6-digit LED display	Data recording and display
Flow meter/totalizer/batcher	Case dimensions 144X144X100
Flow rate/total flow display	Communication interfaces: RS-485/Modbus RTU, USB, Earthnet 10MB, enhanced ACM version
1 pulse counting input + 3 control inputs	
0/2 or 4 REL / OC outputs	5.7", TFT color graphic display with Touch-panel, 320X240 pixels
Analog output optional	Recording speed: from 0.1s up to 24h, resolution 0.1s
Power supply output 24V DC	Memory capacity: 1.5 GB
RS-485 / Modbus RTU	Free configuration software