

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
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](mailto:rtw@nt-rt.ru)

## RDWE-FPW200 Flow Sensor 1.0 Doc. ID: RNT201911102



### RDWE-FPW200 Flow Sensor

- ▶ 4-digit LED for flow rate or total flow
- ▶ 2 switching outputs + 1 analog output
- ▶ Optional batch control
- ▶ PNP / NPN configurable
- ▶ 2/3-wire 4 to 20mA optional
- ▶ 1 to 5V/0 to 5V optional
- ▶ All-metal housing
- ▶ 330° Rotatable indicator

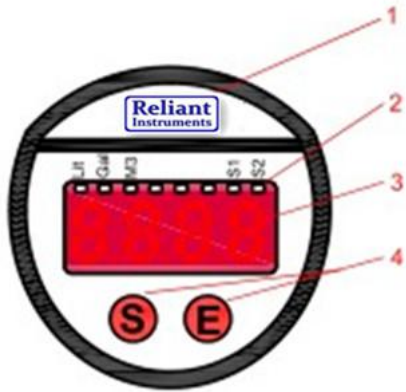


RDWE-FPW control unit displays flow rate as well as total flow, 2 independent switching outputs are compatible with NPN/PNP output. Analog output can be programmed as 2/3-wire 4 to 20mA, 3-wire 0 to 5V/1 to 5V. The unit is able to use together with RFPW100, RFPW200, RFGR200, RFTB201 and RFTB202.

### Specifications

<b>Power Supply</b>	12 to 30VDC
<b>Current Consumption</b>	25mA (power supply 24VDC, no-load)
<b>Switching Output</b>	
Output	Push-pull (compatible with PNP / NPN)
<b>Current</b>	500mA (power supply 24VDC)
<b>Current Analog Output</b>	
Output	2/3-wire 4 to 20mA programable
Load RA (Ω)	$RA \leq (U_s - 3) V / 0.02A$
Linearity	$\leq \pm 0.5\%$ of F.S.
<b>Voltage Analog Output</b>	
Output	3-wire 0 to 5V/1 to 5V programable
Load RA (Ω)	$RA \geq 5K\Omega$
Linearity	$\leq \pm 0.5\%$ of F.S.
<b>Accuracy</b>	$\leq \pm 0.5\%$ of F.S.
<b>Stability (Drift/year)</b>	$\leq \pm 0.3\%$ of F.S.
<b>Temperature</b>	
Ambient	-40 to 85°C
Storage	-40 to 85°C
<b>Display</b>	8mm height, red 4-digit LED
<b>Material</b>	
Display Head	Zinc alloy
Housing	304 stainless steel
<b>Protection Class</b>	IP67
<b>Electrical Connection</b>	M12×1plug

## Set Panel



- 1 - LOGO
- 2 - 8 state lights
- 3 - 4-digit LED display window
- 4 - Keys

<b>S</b> + <b>E</b>	Press and hold for 2 seconds to enter setting mode/verification
<b>S</b>	Shift down the menu/change values
<b>E</b>	Shift up the menu/change values

## Menu

Display	Item	Description	Options
<i>unit</i>	unit	Unit	LPM/GPM/MPH
<i>SP1</i>	SP1	Set point of output 1	2% ...100% of F.S.
<i>rP1</i>	rP1	Reset point of output 1	lower limit ... 98% of F.S.
<i>out1</i>	out1	Output mode	hysteresisNC/NO window NC/NO
<i>SP2</i>	SP2	Set point of output 2	2% ...100% of F.S.
<i>rP2</i>	rP2	Reset point of output 2	lower limit ...98% of F.S.
<i>out2</i>	out2	Output mode	hysteresisNC/NO window NC/NO
<i>SFun</i>	sfun	Output function	PNP / NPN
<i>Aout</i>	Aout	Current analog output	0...20mA or 4...20mA
		Voltage analog output	0...5V or 1...5V
<i>ASt</i>	Ast	Analog output start point	lower limit ...75% of F.S.
<i>AEd</i>	AEd	Analog output end point	25%...100% of F.S.

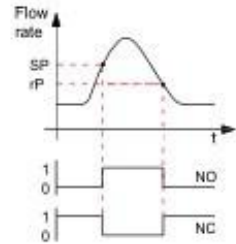
Display	Item	Description	Options
<i>EF</i>	EF	Code for starting the total flow menu	code: 1001
<i>Acc2</i>	ACC2	High 4-digit of the total	0-9999
<i>Acc1</i>	ACC1	Middle 4-digit of the total	0-9999
<i>Acc0</i>	ACC0	Low 4-digit of the total	0-9999
<i>clr</i>	clr	Clear total	rst / no
<i>dAP</i>	dAP	Elimate the peak	0-8 grade
<i>Sto</i>	Sto	Save	Yes/No

## Functional Specifications

**Hysteresis Mode**

The hysteresis keeps the switching output stable if the flow rate fluctuates around the setpoint. Output switches when rising flow rate reaches set point (SP1); As flow rate falls, the output switches back only if the reset point (rP1) is reached.

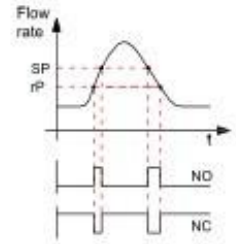
**Hysteresis Mode**



**Window Mode**

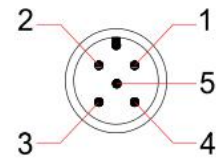
The window function allows the monitoring of a defined range. If the flow rate is between set point (SP1) and reset point (rP1), the output is activated (NO), otherwise it is deactivated (NC).

**Window Mode**



## Wiring

Signal	Plug	Cable
U+	1	Brown
U-	3	Blue
Switching output 1	4	Black
Switching output 2	2	White
Analog output (Current or Voltage)	5	Gray



M12 plug

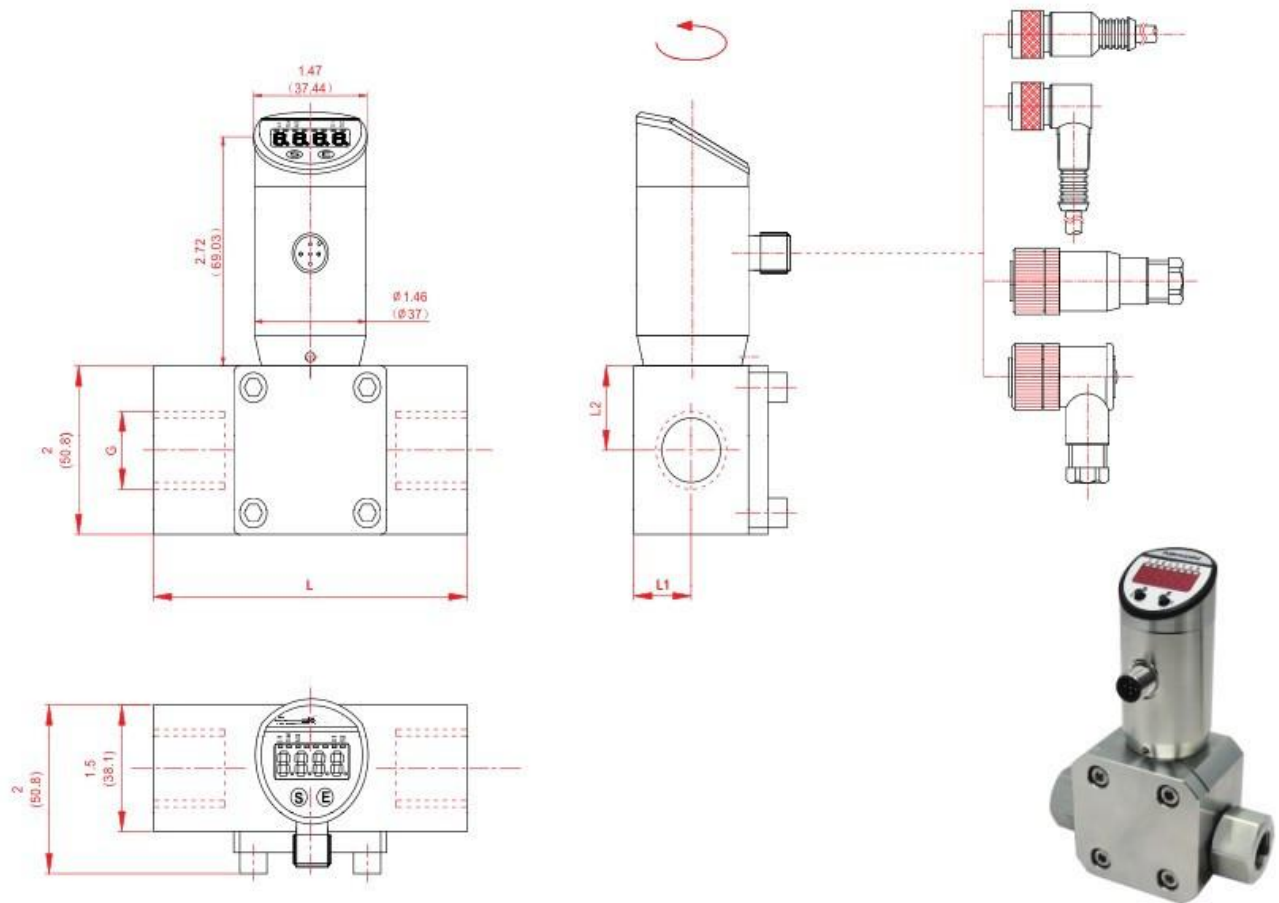
PNP output	NPN output
<p>2xPNP + analog output</p>	<p>2xNPN + analog output</p>

## Dimensions

# RDWE-FPW200 Flow Sensor

Nov. 2019, Rev. RPW2-1.0

Doc. ID: RNT201911102



**Order Code**

## RDWE-FPW200 Flow Sensor

Nov. 2019, Rev. RPW2-1.0

Doc. ID: RNT201911102



	RDWE-FPW :	Paddlewheel flow meter with DWE smart control unit
	200 :	Series Number – compact
	N :	NPT thread
	G :	BSP thread
	12 :	Thread size – 1/2"
	34 :	Thread size – 3/4"
	01 :	Thread size – 1"

RDWE-FPW	200	G	12	A	S	S	038L	T
----------	-----	---	----	---	---	---	------	---

V : 1...5V analog output

A : 4...20mA analog output

S : M12×1 plug

H : Solenoid plug

S : Stainless steel body

A : Anodizing aluminum body

Measuring range : (see technical data for details)

038L : 0.38 to 38 l/min

060L : 0.75 to 60 l/min

100L : 1.8 to 100 l/min

T : Totalizer

B : Batch control

**Note:** For details please refer to RFPW200.

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
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](mailto:rtw@nt-rt.ru)