Reliant Instruments

Product Catalog

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Астана (7172)727-132
Астрахань (8512)99-46-04
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Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47
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Products

01 **Flowmeters**

02 **Level Meters**

03 **Pressure Meters**

Flowmeters

01 Coriolis Mass Flowmeter

02 Electromagnetic Flowmeters

03 RGTF Gas Turbine Flowmeters

04 Variable Area Flowmeters

Coriolis Mass Flowmeter

Coriolis Mass Flowmeter

Applications

Process fluid	Typical application	Industries
LiquidGasSlurry	Custody TransferReactor Feed RatioDensity MeasurementBatch Control	ChemicalsFood & BeveragesMachinery Minerals & MingOil & GasPharmaceuticalsP ower PlantPulp & PaperWaterWaste Water

Coriolis Mass Flowmeter

VB Type

- For Low Flows
- DN2, 5 and 10
- Accuracy up to +/-0.1%
- -40 to +662°F (-40 to +350°C)
- ≤25MPa (≤250Bar)
- Tube Material-316 Stainless Steel, Alloy C22
- Ex-mark: ATEX

Coriolis Mass Flowmeter

UB Type

- Special CNG Use
- DN15, 20, and 25
- Accuracy up to +/-0.1%
- -40 to +662°F (-40 to +350°C)
- ≤40MPa (≤400Bar)
- Tube Material-316 Stainless Steel
- Ex-mark: ATEX

Coriolis Mass Flowmeter

TB Type

- Universal Usa
- DN1and 40 to 250
- Accuracy up to +/-0.1%
- -40 to +662°F (-40 to +350°C)
- ≤25MPa (≤250Bar)
- Tube Material-316 Stainless Steel, Alloy C22
- Ex-mark: ATEX

Coriolis Mass Flowmeter

VA Type

- Universal Use
- DN6 to 40
- Accuracy up to +/-0.1%
- -320 to +392℉ (-196 to +200℃)
- ≤25MPa (≤250Bar)
- Tube Material-316 Stainless Steel, Alloy C22
- Ex-mark: ATEX

Coriolis Mass Flowmeter

UA Type

- Universal Use
- DN50 to 200
- Accuracy up to +/-0.1%
- -320 to +392℉ (-196 to +200℃)
- ≤25MPa (≤250Bar)
- Tube Material-316 Stainless Steel, Alloy C22
- Ex-mark: ATEX

Coriolis Mass Flowmeter

CNG Type

- Special CNG Use
- DN15, 20, and 25
- Accuracy up to +/-0.1%
- -320 to +392℉ (-196 to +200℃)
- ≤40MPa (≤400Bar)
- Tube Material-316 Stainless Steel
- Ex-mark: ATEX

RMAG Electromagnetic Flowmeter









RMAG Electromagnetic Flowmeter

Applications

- Chemical and petroleum industry
- Metallurgy industry
- Water and waste water
- Agriculture and irrigation
- Food and beverage industry
- Pharmaceutical industry

RMAG Electromagnetic Flowmeter

Features

•Various liner can be selected that satisfies most industrial applications.
•Flow Velocity range:0-12 m/s, with good results for low flow applications
•It comes any flanges such as, ANSI, DIN, JIS …etc.
•It excellent for high pressure application.
•Protection class: IP68 is available, and the sensor can sink into the water.
•FEP Liner suitable in vacuum tube.
•High accuracy of +/-0.5% of reading(or+/-0.2% of reading)
•With Forward/Reverse flowrate measure function.

RMAG Electromagnetic Flowmeter

Specifications

DN (mm):	10,15,20, 25, 32, 40, 50, 65, 80, 100,125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1200,1400,1600, 1800, 2000
Measuring Range:	Velocity 0 - 0.25 m/s min. and 0 - 12 m/s max.
Conductivity:	more than 5 uS/cm
Accuracy:	+/-0.5% of reading (Velocity>=0.5 m/s), +/-0.0025 m/s (Velocity < 0.5 m/s), +/-0.2% of Reading
Max. Pressure:	350 Kg/cm2
Temperature:	-10 ~ +60 C (Polyurethane), -20 ~ +70 C (Neoprene), -40 ~ +180 C (FEP), -40 ~ +180 C (PTFE)
Electrode & Grounding:	Stainless Steel 316L, Hastelloy B, Hastelloy C, Titanium, Tantalum, Platinum, Tungsten Carbide, Monel
Lining Material:	Polyurethane(25-600 mm), Neoprene(50-2000 mm), FEP(6-300 mm), PTFE(25-800 mm)
Measuring Tube:	Stainless Steel 304
Coil Housing:	Carbon Steel (standard), Stainless Steel 304(Option), Stainless Steel 316(Option)
Flange:	Carbon Steel (standard), Stainless Steel 304(Option), Stainless Steel 316(Option)
Flanges Type:	JIS, DIN, ANSI and others as option
Ambient Temp:	-25 to +60 Deg. C
Cable Entry:	2 M20x1.5
Grounding Resistance:	Must be less then 10 Ω
Protection:	IP 65, IP67 and IP68

RGTF Gas Turbine Flowmeter

RGTF Gas Turbine Flowmeter

Specifications

- Condition for Use
  Ambient temperature: -30℃ to +60℃
  Medium temperature: -40℃ to +85℃
  Relative humidity: 5% to 95%
  Atmospheric pressure: 70 kPa to 106 kPa
- Nominal Diameter: DN25 to DN400, Larger size consult us
- Working Pressure:0.5 to 4MPa, Larger pressure consult us
- Range ratio: The measurement range can reach to 40:1
- Accuracy: ±1.0%, ±1.5%
- Repeatability: Superior to 0.2%
- Explosion-proof Degree: ExdIIBT4, ExiaIIBT4; protection degree: IP65
- Housing Material : Aluminum alloy, stainless steel (1Cr18Ni9Ti), ductile cast iron
- Power Supply: 3.6 V lithium battery, 2/3-wire 18 to 30VDC
- Output signals: 4 to 20 mA
- Communication: MODBUS, HART

RGTF Gas Turbine Flowmeter

Flow Range

For Accuracy 1.5%

DN (mm)	Model	Flow Range (m3/h)	Max. Pressure Loss	Range Ratio	Starting Flow (m3/h)
25	RGTF-025	2.5 to 25	0.7kPa	10:1	0.4
40	RGTF-040	6 to 60	0.7kPa	10:1	1.2
50	RGTF-050	8 to 100	0.6kPa	12:1	1.8
80	RGTF-080	17 to 430	0.6kPa	25:1	3.0
100	RGTF-100	25 to 550	0.7kPa	22:1	5.0
150	RGTF-150	37 to 1500	0.8kPa	10:1	40
200	RGTF-200	60 to 2400	0.8kPa	40:1	15
250	RGTF-250	90 to 3600	0.9kPa	40:1	15
300	RGTF-300	150 to 600	0.9kPa	40:1	15
400	RGTF-400	260 to 8000	0.9kPa	30:1	15

RGTF Gas Turbine Flowmeter

Flow Range

For Accuracy 1.0%

DN (mm)	Model	Flow Range (m3/h)	Max. Pressure Loss (kPa)	Range Ratio	Starting Flow (m3/h)
25	RGTF-025	4 to 30	0.7kPa	7:1	0.4
40	RGTF-040	7 to 60	0.7kPa	8:1	1.2
50	RGTF-050	10 to 100	0.6kPa	10:1	1.8
80	RGTF-080	20 to 400	0.6kPa	20:1	3.0
100	RGTF-100	30 to 550	0.7kPa	20:1	5.0
150	RGTF-150	50 to 1500	0.8kPa	30:1	10
200	RGTF-200	60 to 2000	0.8kPa	33:1	15
250	RGTF-250	100 to 3000	0.9kPa	30:1	15
300	RGTF-300	200 to 4000	0.9kPa	20:1	15
400	RGTF-400	400 to 8000	0.9kPa	20:1	15

Variable Area Flowmeter

Variable Area Flowmeter

Specifications

Measuring ranges(100% values)	Water@20℃, 1 to 200000L/h Air@20℃, 1.013bar, 0.03 to 3000m3/h
Range ratio	Standard 10:1, Special 20:1
Accuracy	Standard +/-1.5%, Special +/-2.0%
Operation pressure	Standard: DN15 to DN50 ≤ 40bar, DN80 to DN200 ≤ 16Bar Special: DN15 to DN50 ≤ 320bar, DN80 to DN200 ≤ 160Bar
Connection	Flanges, Sanitary clamp, Thread, Sanitary thread,other connection consult with us.
Jacket connection	DN15, DIN PN16 flange, other connection consult with us.
OperationTemperature	-20℃ to 450℃, -80℃to -20℃ 0℃ to 80℃ (PTFE Lining)
Ambient temperature	-40℃ to +85℃（remote）, -40℃ to +100℃ (local), -30℃ to +60℃ (Exia, Exd)
Cable entry	M20 x1.5 (M5, M6, M10 indicators） M16x1.5（M7, M8, M9 indicators）
Power supply	Standard :24VDC or 100 to 240VAC@50Hz/60Hz4 to 20 mA:12 to 32VDCAlarm: 24VDCNi-MH Battery 3.6V@9AH (3 years)
Loading	600Ω(RLmax), 500Ω(Exia)
Alarm output	Upper and lower limit instant flow alarm, Optocoupler isolates Darlington output (internal power supply 24VDC，max. current 8mA，external internal power supply 200mA @ 30VDCLocal alarm: upper, lower limit or upper and lower limit instant flow alarm, reed switch value alarm (contact capacity 1A @ 30VDC), optional normally open and normally closed upper limit and lower limit alarm, maximum 60% range, min. 10% range of upper and lower limit alarm interval.
Pulse output	Optocoupler isolates Darlington output as cumulative pulse output (internal power supply 24VDC，max. current 8mA)
Type of protection	IP 67, NEMA 4X
Explosion Proof	Exia Ⅱ CT4, Exd Ⅱ BT3-6 Gb
Fluid Viscosity	DN15:η ＜ 5mPa.s（S15.0 to S15.3） η＜ 30mPa.s （S15.4 to S15.10）DN25:η ＜ 250mPa.s DN50 to DN200：η ＜ 300mPa.sFor special viscosity fluid, please consult with us.

Level meters

01 R901-26GHZ Radar Level Meter

02 R902-26GHZ Radar Level Meter

03 R902T-26GHZ Radar Level Meter

04 R903-26GHZ Radar Level Meter

R901-26GHZ Radar Level Meter

R901-26GHZ Radar Level Meter

Applications

- Chemicals
- Food & Beverages
- Machinery
- Minerals Á Mining
- Oil & Gas
- Pharmaceuticals
- Power Plant
- Pulp & Paper
- Water
- Waste Water

R901-26GHZ Radar Level Meter

Technical Parameters

	Process Connection	Thread G1½"A/Thread 1½" NPT/Flange
	Antenna Material	Stainless Steel / PTF
The outer shell	The seal between the shell and the shell cover	Silicone rubber
	Casing window	Polycarbonate
	The ground terminal	Stainless steel
Power Supply	2-wire system	Standard type (16 to 26) V DCIntrinsically safe (21.6 to 26.4) V DC Power dissipation max 22.5mA / 1W Allowable ripple <100Hz Uss<l0mv<="" td="" style="box-sizing: border-box;">
	Flameproof	(22.8 to 26.4) V DC, 2-wire system(198 to 242)VAC, 4-wire system/110VAC, 4-wire system
Cable parameters	Cable entrance / plug	1-M20xl.5 cable entrance,1- blind plug
	Terminal	Conductor cross section 2.5mm²
Output and Communication	Output signal	(4 to 20) mA /RS485
	Communication protocol	HART/ Modbus
	Resolution	1.6μA
	Fault signal	Constant current output; 20. 5mA22mA 3.9mA
	Integral time	(0 to 36) s, adjustable
	Blind area	the ends of the antenna
	Max. distance measurement	10 meters (Liquid type）
	Accuracy	± 5mm
	Enclosure	IP67
	Ex-Grade	Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb
	Frequency	26GHz
	Communication interface	HART communication protocol
	Measurement interval	about 1 second (depending on the parameter settings)
	Display resolution	1 mm
	Storage & transportation	-40 to100 ℃
	Process Temperature	(40 to 130)℃ (Depend on the antenna part)
	Pressure	Max. 4MPa
	Seismic	Mechanical vibration l0m/s², (10 to 150) Hz

R902-26GHZ Radar Level Meter

R902-26GHZ Radar Level Meter

Applications

- Chemicals
- Food & Beverages
- Machinery
- Minerals Á Mining
- Oil & Gas
- Pharmaceuticals
- Power Plant
- Pulp & Paper
- Water
- Waste Water

R902-26GHZ Radar Level Meter

Technical Parameters

	Process Connection	Thread G1½"A/Thread 1½" NPT/Flange
	Antenna Material	Stainless Steel / PTF
The outer shell	The seal between the shell and the shell cover	Silicone rubber
	Casing window	Polycarbonate
	The ground terminal	Stainless steel
Power Supply	2-wire system	Standard type (16 to 26) V DCIntrinsically safe (21.6 to 26.4) V DC Power dissipation max 22.5mA / 1W Allowable ripple <100Hz Uss
	Flameproof	(22.8 to 26.4) V DC, 2-wire system(198 to 242)VAC, 4-wire system/110VAC, 4-wire system
Cable parameters	Cable entrance / plug	1-M20xl.5 cable entrance,1- blind plug
	Terminal	Conductor cross section 2.5mm²
Output and Communication	Output signal	(4 to 20) mA /RS485
	Communication protocol	HART/ Modbus
	Resolution	1.6μA
	Fault signal	Constant current output; 20. 5mA22mA 3.9mA
	Integral time	(0 to 36) s, adjustable
	Blind area	the ends of the antenna
	Max. distance measurement	30 meters (Liquid type）
	Accuracy	± 3mm
	Enclosure	IP67
	Ex-Grade	Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb
	Frequency	26GHz
	Communication interface	HART communication protocol
	Measurement interval	about 1 second (depending on the parameter settings)
	Display resolution	1 mm
	Storage & transportation	-40 to100 ℃
	Process Temperature	(40 to 130)℃ (Depend on the antenna part)
	Pressure	Max. 4MPa
	Seismic	Mechanical vibration l0m/s², (10 to 150) Hz

R902T-26GHZ Radar Level Meter

R902T-26GHZ Radar Level Meter

Applications

- Chemicals
- Food & Beverages
- Machinery
- Minerals Á Mining
- Oil & Gas
- Pharmaceuticals
- Power Plant
- Pulp & Paper
- Water
- Waste Water

R902T-26GHZ Radar Level Meter

Technical Parameters

	Process Connection	Thread G1½"A/Thread 1½" NPT/Flange
	Antenna Material	Stainless Steel / PTF
The outer shell	The seal between the shell and the shell cover	Silicone rubber
	Casing window	Polycarbonate
	The ground terminal	Stainless steel
Power Supply	2-wire system	Standard type (16 to 26) V DCIntrinsically safe (21.6 to 26.4) V DC Power dissipation max 22.5mA / 1W Allowable ripple <100Hz Uss
	Flameproof	(22.8 to 26.4) V DC, 2-wire system(198 to 242)VAC, 4-wire system/110VAC, 4-wire system
Cable parameters	Cable entrance / plug	1-M20xl.5 cable entrance,1- blind plug
	Terminal	Conductor cross section 2.5mm²
Output and Communication	Output signal	(4 to 20) mA /RS485
	Communication protocol	HART/ Modbus
	Resolution	1.6μA
	Fault signal	Constant current output; 20. 5mA22mA 3.9mA
	Integral time	(0 to 36) s, adjustable
	Blind area	the ends of the antenna
	Max. distance measurement	30 meters (Liquid type）
	Accuracy	± 3mm
	Enclosure	IP67
	Ex-Grade	Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb
	Frequency	26GHz
	Communication interface	HART communication protocol
	Measurement interval	about 1 second (depending on the parameter settings)
	Display resolution	1 mm
	Storage & transportation	-40 to100 ℃
	Process Temperature	(40 to 130)℃ (Depend on the antenna part)
	Pressure	Max. 4MPa
	Seismic	Mechanical vibration l0m/s², (10 to 150) Hz

R903-26GHZ Radar Level Meter

R903-26GHZ Radar Level Meter

Applications

- Chemicals
- Food & Beverages
- Machinery
- Minerals Á Mining
- Oil & Gas
- Pharmaceuticals
- Power Plant
- Pulp & Paper
- Water
- Waste Water

R903-26GHZ Radar Level Meter

Technical Parameters

	Process Connection	Thread G1½"A/Thread 1½" NPT/Flange
	Antenna Material	Stainless Steel / PTF
The outer shell	The seal between the shell and the shell cover	Silicone rubber
	Casing window	Polycarbonate
	The ground terminal	Stainless steel
Power Supply	2-wire system	Standard type (16 to 26) V DCIntrinsically safe (21.6 to 26.4) V DC Power dissipation max 22.5mA / 1W Allowable ripple <100Hz Uss
	Flameproof	(22.8 to 26.4) V DC, 2-wire system(198 to 242)VAC, 4-wire system/110VAC, 4-wire system
Cable parameters	Cable entrance / plug	1-M20xl.5 cable entrance,1- blind plug
	Terminal	Conductor cross section 2.5mm²
Output and Communication	Output signal	(4 to 20) mA /RS485
	Communication protocol	HART/ Modbus
	Resolution	1.6μA
	Fault signal	Constant current output; 20. 5mA22mA 3.9mA
	Integral time	(0 to 36) s, adjustable
	Blind area	the ends of the antenna
	Max. distance measurement	30 meters (Liquid type）
	Accuracy	± 3mm
	Enclosure	IP67
	Ex-Grade	Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb
	Frequency	26GHz
	Communication interface	HART communication protocol
	Measurement interval	about 1 second (depending on the parameter settings)
	Display resolution	1 mm
	Storage & transportation	-40 to100 ℃
	Process Temperature	(40 to 130)℃ (Depend on the antenna part)
	Pressure	Max. 4MPa
	Seismic	Mechanical vibration l0m/s², (10 to 150) Hz

Pressure Meters

01 **RVP201 Differential Pressure Transmitter**

02 **RVP202 Gauge Pressure Transmitter/**
RVP203 Absolute Pressure Transmitter

03 **RVP212 Gauge Pressure Transmitter/**
RVP213 Absolute Pressure Transmitter

RVP 201 Differential Pressure Transmitter

- Measurement medium: gas, steam, liquid
- Range Limits: 0 to 100Pa to 3MPa
- Accuracy：±0.075%
- Isolating Diaphragm：316L / Hastelloy C

RVP 202 Gauge Pressure Transmitter/ RVP 203 Absolute Pressure Transmitter

- Measurement medium: gas, steam, liquid
- Range Limits: 0 - 100Pa ~ 60MPa
- Accuracy：±0.075%
- Isolating Diaphragm：316L / Hastelloy C

RVP 212 Gauge Pressure Transmitter/ RVP 213 Absolute Pressure Transmitter

- Measurement medium: gas, steam, liquid
- Range Limits: 0 - 100Pa ~ 40MPa
- Accuracy：±0.075%
- Isolating Diaphragm：316L / Hastelloy C