



Southern Instruments

www.southerninstruments.com.au

+61 3 97493676

ROCKSENSOR AUTOMATION

-  **Pressure**
-  **Flow**
-  **Level**
-  **Temperature**
-  **Control**





RP1001 Differential Pressure Transmitter

Range :0-200Pa~6kPa,
0-400Pa~40kPa, 0-2.5kPa~250kPa,
0-30kPa~3MPa.
Accuracy: $\pm 0.05\%$, $\pm 0.075\%$, $\pm 0.1\%$
Output Signal: 4-20mADC HART
Power Supply: 12-36VDC
Working Pressure: 16MPa, 25MPa,
40MPa
Sensor Body:316L stainless steel
Isolating Diaphragm: 316L, Hastelloy C,
Gold plated on 316L, FEP plated on
316L, Tantalum
Protection: IP67
Ambient Temp: -40~+80°C



RP1002 Pressure Transmitter

Range : gauge: 0-0.6kPa~6kPa,
0-2kPa~40kPa, 0-2.5kPa~250kPa,
0-30kPa~3MPa, 0-0.1MPa~10MPa,
0-0.21MPa~21MPa, 0-0.4MPa~40MPa.
Absolute: 0-10kPa~40kPa,
0-10kPa~250kPa, 0-30kPa~3MPa
Accuracy: $\pm 0.05\%$, $\pm 0.075\%$, $\pm 0.1\%$
Output Signal: 4-20mADC HART
Power Supply: 12-36VDC
Isolating Diaphragm: 316L, Hastelloy C
Fill oil: Silicone oil / Fluorinated oil
Protection: IP67
Ambient Temp: -40~+85°C



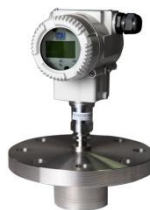
RP1001 Differential Pressure Level Transmitter

Range :0-2kPa~6kPa, 0-4kPa~40kPa,
0-2.5kPa~250kPa, 0-30kPa~3MPa.
Accuracy: $\pm 0.075\%$, $\pm 0.1\%$
Output Signal: 4-20mADC HART
Power Supply: 24VDC
Working Pressure: 16MPa, 25MPa,
40MPa
Sensor Body:316L stainless steel
Isolating Diaphragm: 316L, Hastelloy C,
Tantalum , PFAP or PTFE plated on 316L
Protection: IP67
Medium Temp: -30~+180°C
Flange:DN50, DN80, DN100



RP1001 Remote Seal Differential Pressure Transmitter

Range :0-2kPa~6kPa, 0-4kPa~40kPa,
0-2.5kPa~250kPa, 0-30kPa~3MPa.
Accuracy: $\pm 0.075\%$, $\pm 0.1\%$
Output Signal: 4-20mADC HART
Power Supply: 24VDC
Working pressure: 16MPa
Sensor body:316L stainless steel
Isolating diaphragm: 316L, Hastelloy C,
Tantalum , PFA or PTFE plated on flange
Protection: IP67
Medium Temp: -40~+450°C
Flange:DN50, DN80, DN100, DN2",
DN3", DN4"
Capillary length:0-12m



RP1002 Remote Seal Gauge Absolute Pressure Transmitter

Range : Gauge P : 40kPa, 250kPa,
3MPa, 10MPa, 21MPa, 40MPa
Absolute P: 40kPa, 250kPa, 3MPa
Accuracy: $\pm 0.075\%$, $\pm 0.1\%$
Output Signal: 4-20mADC HART
Power Supply: 24VDC
Sensor Body:316L stainless steel
Isolating Diaphragm: 316L, Hastelloy C,
Tantalum , PFA or PTFE plated on flange
Protection: IP67
Medium Temp: -30~+180°C
Flange:DN50, DN80, DN100, DN2",
DN3", DN4"
Capillary Length:0-12m



RP1005 Multi-parameter Differential Pressure Transmitter

Application: measuring the mass
flow ,pressure, differential pressure and
temperature of liquid, gas or steam.
Range :0-2kPa~6kPa, 0-4kPa~40kPa,
0-2.5kPa~250kPa, 0-30kPa~3MPa.
Accuracy: $\pm 0.075\%$, $\pm 0.1\%$
Output signal: 4-20mADC HART
Power supply: 24VDC
Static pressure sensor: 40MPa, 10MPa,
3MPa, 0.25MPa
Sensor body:316L stainless steel
Isolating diaphragm: 316L, Hastelloy C,
Tantalum , FEP or gold plated on 316L
Protection: IP67
Ambient Temp: -40~+85°C



RP101 Differential pressure transmitter

Accuracy: $\pm 0.1\%$
 Range: 0~1-6kPa, 0~4-40kPa, 0~25-250kPa, 0~250-3000kPa
 Output: 4-20mADC, 485 communication
 Isolate Diaphragm: 316L, Hastelloy C
 Working Pressure : 16MPa, 40MPa
 Ambient Temp:-40~85°C, with LED display -20~65°C
 Storage/Transport Temp: -50~85°C, With LED display:-25~85°C
 Supply Voltage :24VDC



RP102 Pressure transmitter

Accuracy: $\pm 0.1\%$
 Range: 0~3-6kPa, 0~4-40kPa, 0~25-250kPa, 0~250-3000kPa, 0~1000-10000kPa, 0~2000-21000kPa, 0~4000-40000kPa, 0~10-40abs, 0~25-250abs, 0~250-3000abs
 Output: 4-20mADC, RS485
 Isolate Diaphragm: 316L, Hastelloy C
 Working Pressure : 16MPa, 40MPa
 Ambient Temp:-40~85°C, with LED display -20~65°C
 Storage/ Transport Temp: -50~85°C, With LED display:-25~85°C
 Supply Voltage :24VDC



RP202L Submersible Level Transmitter

Accuracy: $\pm 0.1\%$, $\pm 0.2\%$, $\pm 0.5\%$
 Output: 4-20mADC, RS485
 Isolate Diaphragm: 304, 316L, PTFE
 Process Connection : M42x1.5(F)
 Electrical Connection:M20x1.5 female NPT1/2 female
 Cable Length:3m, 5m, 6m, 8m, 10m, 15m, 20m, 25m, customizing
 Medium Temp:-10~70°C
 Supply Voltage :24VDC, 12-30VDC
 Protection: IP67
 Cable Protection: PVC,PUR



RP202C/S Universal pressure transmitter

Pressure Ref.:gauge / absolute / sealed pressure
 Range:-100kpa...0~6kPa...60MPa
 Output:4~20mA,485RTU,0-10V, 1-5V, 0-5V, 0.5-4.5V
 Power Supply:24VDC,5VDC
 Accuracy: 0.1%, 0.25%, 0.5%
 Ambient Temp.: -20~85°C
 Medium Temp.: -40~100°C
 Explosion-proof:Exd II BT4
 Wetted Part: 316L
 Protection:IP65



RP202H Gauge / Absolute pressure transmitter

Range :-100kpa...0~6kPa...60MPa
 Output: 4~20mA, 485RTU,0-10V, 1-5V, 0-5V
 Power Supply:24VDC,5VDC
 Accuracy: 0.1%, 0.25%, 0.5%
 Ambient Temp.: -20~85°C
 Medium Temp.: -40~100°C
 Explosion-proof:Exd II BT4
 Wetted Part: 316L
 Protection:IP65



RP202D Digital pressure switch

Range : 0~10kPa...100MPa
 Pressure Ref.:gauge / absolute / sealed pressure
 Over pressure :150%FS
 Power Supply:12~30v
 Display Mode:OLED display of 4 digits
 Output Mode:PNP,NPN
 Operating Temp.: -25~80°C
 Storage Temp.: -40~100°C
 Load Capacity:24V,1.2A
 Accuracy:0.1%, 0.5%
 Protection :IP65
 Housing :304
 Diaphragm:316L



RCF3200-P Hydrogen ultra high pressure Coriolis mass flow meter (35/70MPa)

Accuracy: 0.15%, 0.2%, 0.5%, 1.0%
 Density: $\pm 0.001\text{g/cm}^3$
 Ambient Temp.: $-40^\circ\text{C}\sim+55^\circ\text{C}$
 Medium Temp.: $-40^\circ\text{C}\sim+70^\circ\text{C}$
 Supply Voltage: 12VAC~30VAC / 15VDC~40VDC
 Elect. Conn.: Thread M20×1.5
 Output: Modbus / RS-485, Pulse, 4-20mA /HART
 Tube Material: 316L , Hastelloy
 Nominal Diameter: DN04, DN08, DN15
 Flow Rate: 8~17kg/min, 18~39kg/min, 80~176kg/min
 Protection:IP67



RCF3200-P Compression of natural gas Coriolis mass flow meter(CNG 25MPa)

Accuracy: 0.15%, 0.2%, 0.5%, 1.0%
 Density: $\pm 0.001\text{g/cm}^3$
 Ambient Temp.: $-40^\circ\text{C}\sim+55^\circ\text{C}$
 Medium Temp.: $-40^\circ\text{C}\sim+70^\circ\text{C}$
 Supply Voltage: 12VAC~30VAC / 15VDC~40VDC
 Elect. Conn.: Thread M20×1.5
 Output: Modbus / RS-485, Pulse, 4-20mA /HART
 Tube Material: 316L , Hastelloy
 Nominal Diameter: DN04, DN08, DN15
 Flow Rate: 8~17kg/min, 18~39kg/min, 80~176kg/min
 Protection:IP67



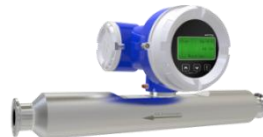
RCF3200-L Cryogenic liquid Coriolis mass flow meter (LNG) (-196°C)

Accuracy: 0.15%, 0.2%, 0.5%, 1.0%
 Density: $\pm 0.001\text{g/cm}^3$
 Ambient Temp.: $-40^\circ\text{C}\sim+55^\circ\text{C}$
 Medium Temp.: $-196^\circ\text{C}\sim+70^\circ\text{C}$
 Supply Voltage : 12VAC~30VAC / 15VDC~40VDC
 Elect. Conn.: Thread M20×1.5
 Output: Modbus / RS-485, Pulse, 4-20mA Current Loop/HART
 Tube Material: 316L , Hastelloy
 Nominal Diameter: DN08, DN25, DN50
 Flow Rate: 18~39kg/min, 220~485kg/min, 750~1653kg/min
 Protection:IP67



RCF3200-T Industry Coriolis mass flow meter

Accuracy: 0.15%, 0.2%, 0.5%, 1.0%
 Medium Temp.: $-40^\circ\text{C}\sim+150^\circ\text{C}$
 Supply Voltage : 12VAC~30VAC / 15VDC~40VDC
 Output: Modbus / RS-485, Pulse, 4-20mA Current Loop/HART
 Measuring Medium: Gas,Liquid and Multi-phase fluid
 Tube Material: 316L , Hastelloy
 Nominal Diameter: DN04, DN08, DN15, DN25, DN50, DN80
 Flow Rate: 8~17kg/min, 18~39kg/min, 80~176kg/min, 18~39kg/min, 220~485kg/min, 750~1653kg/min, 1800~3968kg/min
 Protection:IP67



RCF3200-Z Sanitary Coriolis mass flow meter

Accuracy: 0.15%, 0.2%, 0.5%, 1.0%
 Medium Temp.: $-40^\circ\text{C}\sim+150^\circ\text{C}$
 Supply Voltage : 12VAC~30VAC / 15VDC~40VDC
 Elect. Conn.:Thread M20×1.5
 Output: Modbus / RS-485, Pulse, 4-20mA /HART
 Tube Material: 316L , Hastelloy,
 Process Connection: Thread, Flange, Sanitary quick coupling
 Nominal Diameter: DN15, DN25, DN40, DN50
 Flow Rate: 108~238kg/min, 300 ~ 661 kg/min, 750~1653kg/min, 1166~2570kg/min
 Protection:IP67



RF3700 Series Thermal Gas Mass Flow Meter

Pipe Diameter Range: DN15~4000mm, DN15~2000mm
 Flow Range:0.08-120Nm/s
 Accuracy : $\pm 1+2.5\%$
 Operation Temp.: Sensor: $-40\sim+220^\circ\text{C}$: $-20\sim+45^\circ\text{C}$
 Working Pressure: $\leq 4\text{MPa}$
 Power Supply: 24V, 220V (integrated), 220V (separate)
 Output Signal: 4-20mA,RS485, HART, pulse
 Protect Level IP67



REF3301 Integrated Electromagnetic flow meter

Accuracy: $\pm 0.5\%$ standard; $\pm 0.2\%$ optional
 Output: 4-20mA
 Repeatability : $\pm 0,1\%$
 Range Dimension/ Lining Material: PTFE DN10- DN500, Rubber DN65- DN2000
 Sensor Material: SS321
 Housing Material:Aluminium
 Electrodes Material: SS316L/ Hastelloy C/Titanium/ Platinum
 Measuring Range: $<0,1\text{m}^3/\text{h} \rightarrow 11000\text{m}^3/\text{h}$
 Power Supply:85-265Vac, 24VDC, 12VDC
 Protection :IP67



REF3302 Remote type Electromagnetic flow meter

Accuracy: $\pm 0.5\%$ standard; $\pm 0.2\%$ optional
 Output: 4-20mA
 Repeatability : $\pm 0,1\%$
 Range Dimension/ Lining Material: PTFE DN10- DN500, Rubber DN65- DN2000
 Sensor Material: SS321
 Housing Material:Aluminium
 Electrodes Material: SS316L/ Hastelloy C/Titanium/ Platinum
 Measuring Range: $<0,1\text{m}^3/\text{h} \rightarrow 11000\text{m}^3/\text{h}$
 Power Supply:85-265Vac, 24VDC, 12VDC
 Protection :IP67



RDF3001 Differential mass flow meter

Application: For the pharmaceutical or food industry to measure the flow, pressure and temperature of liquids such as water, milk, etc.
 Accuracy: 0.5%, 1.0%
 Power Influence: $\pm 0.001\%/10\text{V}$
 Measure Range:
 0-1t/h,0-2t/h,0-3t/h,0-5t/h,0-7t/h,0-10t/h,0-15t/h,0-20t/h,0-30t/h
 Ambient Temp.: $0^\circ\text{C} \sim +65^\circ\text{C}$
 Supply Voltage : 24V
 Output: 4-20mA ,HART
 Tube Material : 316L (default),
 Process Connection: 316L,



RVF3400 Vortex flow meter

Nominal Pressure (MPa): 1.6, 2.0, 2.5, 4.0
 Accuracy: 1.5%
 Instrument Material: 304 (316L, Hastelloy are optional)
 Speed Range (m / s): Gas 3 ~ 60, Steam 3 ~ 70
 Output Signal: voltage pulse, 4-20mA, RS485
 Ambient Temp.: $-20^\circ\text{C} \sim + 55^\circ\text{C}$;
 humidity $\leq 90\%$ RH
 Explosion-proof Type: Exia II CT1 ~ T4
 Protection: IP65



RTF3500 Turbine flow meter

Nominal Diameter :4~200mm
 Medium Ttemp. : $-20 \sim + 120^\circ\text{C}$
 Ambient Temp.: $-20^\circ\text{C} \sim + 50^\circ\text{C}$
 Accuracy: 0.5%, 1%
 Power Supply: +12VDC , -12VDC or 24VDC
 Output :4-20mA
 Transmission Distance: 500m
 Explosion-proof Type: Exia II T4
 Protection: IP65



RFF3600 Metal tube float flow meter

Measuring Range: water 2.5 ~180000L / h, air (20°C 101325Pa) 0.07 ~ 1800m³ / h
 Accuracy: 2.5%, 1.5%
 Working Pressure: 1.6MPa ~ 4.0MPa;
 Medium Temp.: $-80 \sim + 300^\circ\text{C}$
 Ambient Temp.: -25 to $+120^\circ\text{C}$
 Medium Viscosity: DN 15 ~150 $\leq 5\text{mPa}\cdot\text{s}$;
 Protection Level: IP65
 Power Supply Voltage: 24 (1 \pm 10%) V DC
 Output Signal: 4 - 20 mA DC, two-wire system (optional compatible with HART protocol)
 Explosion-proof Type: Exia II CT1-T4



RD4001 Anti-corrosion radar level meter

Application: all aggressive liquids
 Process Connection: thread, flange
 Medium Temperature: -60°C~+120°C
 Process Pressure: -0.1~0.3MPa
 Accuracy: ±5mm
 Measure Range:0~20m
 Frequency Range: 26GHz
 Explosion Proof: Ex ia IIC T6 Ga
 Enclosure Protection Grade: IP67
 Signal Output: 4-20mA/ HART (2-wire/4-wire), RS485/ Modbus
 Flange:DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250



RD4003 Universal radar level meter

Application: solid particles and dust
 Process Connection: thread, flange
 Medium Temperature: -60°C~+250°C
 Accuracy: ±3mm
 Measure Range:0~70m
 Frequency Range: 26GHz
 Explosion Proof: Ex ia IIC T6 Ga
 Enclosure Protection Grade: IP67
 Signal Output: 4-20mA/ HART (2-wire/4-wire), RS485/ Modbus
 Flange:DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250



RD4004 Long-range radar level meter

Application: solid material, process tank or heavy dust or ash, or easy crystallization and condensation place.
 Process Connection: thread, flange
 Medium Temperature: -60°C~+250°C
 Accuracy: ±15mm
 Measure Range:0~70m
 Frequency Range: 26GHz
 Explosion Proof: Ex ia IIC T6 Ga
 Enclosure Protection Grade: IP67
 Signal Output: 4-20mA/ HART (2-wire/4-wire), RS485/ Modbus
 Flange:DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250



RD4005 Atmospheric pressure radar level meter

Application: solid particles and dust
 Measuring Range :0~35m
 Process Connection: thread, flange
 Medium Temperature: -60°C~+250°C
 Accuracy: ±3mm
 Frequency Range: 26GHz
 Explosion Proof: Ex ia IIC T6 Ga
 Enclosure Protection Grade: IP67
 Signal Output: 4-20mA/ HART (2-wire/4-wire) , RS485/ Modbus
 Flange:DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250



RD4006 Sanitary radar level meter

Application: sanitary liquid storage containers, heavy corrosive liquids
 Measuring Range :0~20m
 Medium Temperature: -60°C~+150°C
 Accuracy: ±3mm
 Frequency Range: 26GHz
 Explosion Proof: Ex ia IIC T6 Ga
 Enclosure Protection Grade: IP67
 Signal Output: 4-20mA/ HART (2-wire/4-wire), RS485/Modbus
 Flange:DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250



RD4007 Guided wave radar level gauge

Application: Level measurement of liquid storage tank and solid powder silo.
 Measuring Range: 30 meters
 Process Connection: Thread, flange
 Process Temperature: -40 ~ 250 °C
 Process Pressure: -0.1 ~ 2.0 MPa
 Accuracy: ± 3mm
 Frequency Range: 100MHz ~ 1.8GHz
 Signal Output: 4 ~ 20 mA / HART protocol, 24V DC two-wire system / four-wire system, 220V AC four-wire system
 Explosion-proof : Exia IIC T6 Ga
 Protection: plastic housing IP66 / aluminum Housing IP 67



Temperature



RTT5000 Temperature transmitter

Output Signal: 4 ~ 20mA (two-wire system)
 Damping: 0 ~ 30 seconds
 Power Supply Voltage: 12V ~ 35V
 Working Environment Temperature: -40 ~ 85 °C
 Remote Transmission and Storage Temperature: -40 ~ 100 °C
 Communication: EASYTT configuration software
 Display: 3&1/2 LCD display
 Response Time: 0.5S
 Measure Accuracy: 0.15%
 Working Temperature: -20 ~ 70 °C



RTM5000 Isolated intelligent temperature transmitter

Input Signal: Thermal resistance(RTD), Thermocouple (TC)
 Cold Junction Compensation
 Temperature Range: -20 ~ 60°C
 Compensation Accuracy ±1°C
 Output Signal: 4-20mA
 Supply Voltage: DC12-40V
 Transmission Accuracy (20°C): 0.1%FS
 Temperature Drift: 0.0075%FS/°C
 Ambient Temperature: -40 ~ 80°C
 Stored Temperature: -40 ~ 100°C
 Protection Level:IP00,IP66(installation)
 Shock Resistance: 4g/2 ~ 150Hz



RTC5000 Thermocouple / Thermal resistance thermometer

Range: Thermal resistance -50~850°C、 Thermocouple 0~1200°C
 Accuracy: A, B
 Output: Thermal resistance(Ω), Thermocouple (m V)、 4 ~ 2 0 m A
 Heat Rods:Φ6~12.7mm
 Process Connection: R1/2,R1/4
 Material:SUS304, SUS316, PP, PFA, titanium alloy
 Supply Voltage: 24VDC
 Insulation Resistance: 100M Ω / 500V
 Protection:IP65



Control



RDD6001 Intelligent digital display

Input: thermal resistance, thermocouple, DCA, DCV, linear resistance , remote resistance
 Communication Output: MODBUS-RUT protocol, RS-485 , transmission distance≤1Km
 Display Range: -1999 ~ 9999.
 Measurement Accuracy: 0.2% , 0.3% .
 Control Period: 0.2 s.
 Working Environment: 0 ~ 50 °C.
 Relative Humidity: 10 ~ 90% RH
 Power Supply Voltage: AC 100 ~ 240V , DC 20 ~ 30V



RPR6000 Paperless Recording Instrument

Input: thermal resistance, thermocouple, DCA, DCV, linear resistance , remote resistance
 Output: DC0~1 0mA, DC4~20mA, DC0~20mA, DC0~5V, DC1~5V, DC0~10V
 Recording Capacity: 64MBit
 Accuracy: 0.2%
 Working Environment: 0 ~ 50 °C.
 Relative Humidity: 10 ~ 90% RH
 Power Supply Voltage: AC 100 ~ 240V , DC 20 ~ 30V



RDD6002 Intelligent digital display controller

Input: thermal resistance, thermocouple, DCA, DCV, linear resistance , remote resistance
 Communication Output: MODBUS-RUT protocol, RS-485 , transmission distance≤1Km
 Display Range: -1999 ~ 9999.
 Measurement Accuracy: 0.3%
 Working Environment: 0 ~ 50 °C.
 Power Supply Voltage: AC 100 ~ 240V , Protection: IP65

About ROCKSENSOR

Rocksensor Automation authorized by Rocksensor Sàrl Zurich, Switzerland is the industrial company which design and manufacture automation equipments, especially the high-precision automation instruments. We supply products to be used in industrial process control, pressure measuring, flow measuring and other occasions.

As the industry leader in automation measurement area, ROCKSENSOR provides excellent products and technical support services for customers around the world.

