

INSTRUMENTS FOR BATTERY AND CLEAN ENERGY

WISE

www.wisecontrol.com

Pressure
Instruments

Temperature
Instruments

Flow & Level
Instruments

WISE



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Battery and Clean Energy Products.

Catalog

INSTRUMENTS
FOR
BATTERY AND
CLEAN ENERGY

WISE

SMT2001

Differential Pressure Transmitter

ACCURACY

±0.05% of full span, ±0.075% of full span

TURN DOWN

Adjustable up to 100:1 range ability

ISOLATING DIAPHRAGM

316L SS
Hastelloy C
316L SS with Gold plated
316L SS with Teflon plated

OUTPUT

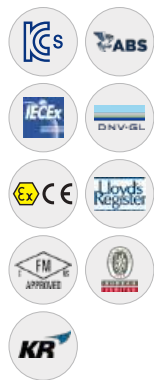
4~20mA with HART Protocol

FAILURE ALARM

CE CONFORMITY EMC DIRECTIVE

DEGREE OF PROTECTION

IP66/IP67



SMT2002

Gauge Pressure Transmitter

ACCURACY

±0.05% of full span, ±0.075% of full span

TURN DOWN

Adjustable up to 100:1 range ability

ISOLATING DIAPHRAGM

316L SS
Hastelloy C
316L SS with Gold plated

OUTPUT

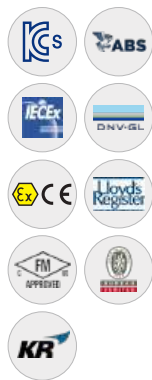
4~20mA with HART Protocol

FAILURE ALARM

CE CONFORMITY EMC DIRECTIVE

DEGREE OF PROTECTION

IP66/IP67



SMT3000

Temperature Transmitter

WORKING TEMPERATURE

Ambient: -40~65°C

POWER SUPPLY

10 ~ 42VDC

INPUT

Thermocouple: K, J, T, N, E, B, R, S
RTD: Pt 100 Ω at 0°C

SHEATH MATERIAL

Thermocouple: 316L SS, Inconel 600, 310SS, 446SS, 347SS, 321SS
RTD: 316L SS

OUTPUT

4~20mA with HART Protocol

CE CONFORMITY EMC DIRECTIVE



UTE100

UHP Temperature Element

ELEMENT

Thermocouple: K, E, J, T, N, R, S, B
RTD: Pt 100Ω at 0°C

TOLERANCES ON TEMPERATURE READING

Thermocouple:
Class 1, Class 2
(DIN/IEC584-2, BS/EN60584-2, JIS C1602)
Special, Standard (ASTM E230, E988, ISA-MC96.1)

RTD:

Class A: $\pm(0.15 + 0.002 |t|)$
Class B: $\pm(0.3 + 0.005 |t|)$

SHEATH OUTER DIAMETER

Thermocouple:
1.0, 1.6, 2.3, 3.2, 4.8, 6.4, 8.0, 9.5 and 12.7mm

RTD:

3.2, 4.8, 6.4 and 8.0mm

SENSING ELEMENT STRUCTURE

316L SS



UTE200

Temperature Element

ELEMENT

Thermocouple: K, E, J, T, N, R, S
RTD: Pt 100Ω at 0°C

TOLERANCES ON TEMPERATURE READING

Thermocouple:
Class 1, Class 2 (DIN/IEC584-2, BS/EN60584-2, JIS C1602)
Special, Standard (ASTM E230, E988, ISA-MC96.1)

RTD:

Class A: $\pm(0.15 + 0.002 |t|)$
Class B: $\pm(0.3 + 0.005 |t|)$

SHEATH OUTER DIAMETER

Thermocouple:
1.0, 1.6, 2.3, 3.2, 4.8, 6.4, 8.0, 9.5 and 12.7mm

RTD:

3.2, 4.8, 6.4 and 8.0mm

SENSING ELEMENT STRUCTURE

316L SS

ELECTRICAL RATING

Protection tube or sheathed



R220

Sheathed Type Resistance Temperature Detector Element

ELEMENT

RTD: Pt 100Ω at 0°C

TOLERANCES ON TEMPERATURE READING

Class A: $\pm(0.15 + 0.002 |t|)$
Class B: $\pm(0.3 + 0.005 |t|)$

HEAD MATERIAL

ALDC, Stainless Steel

TEMPERATURE RANGE

- Film type element
 - Class A (-30~300°C)
 - Class B (-50~500°C)
- Ceramic type element
 - Class A (-100~450°C)
 - Class B (-196~600°C)

SHEATH MATERIAL

316LSS

SHEATH OUTER DIAMETER

3.2, 4.8, 6.4 and 8.0mm



R950(ETR10 series)

Intrinsic Safety And Increased Safety Type Thermocouple And Resistance Temperature Detector

ELEMENT

Thermocouple: K, E, J, T, N
R.T.D: Pt 100Ω at 0°C

HEAD MATERIAL

ALDC, 316SS

TOLERANCES ON TEMPERATURE READING

Thermocouple: Class 1, Class 2
RTD: Class A, Class B



P221

Industrial Service Pressure Gauge (40, 50mm)

DIAL

40 and 50mm

ACCURACY

40mm: ±3.0% of full scale
50mm: ±1.5% of full scale

RANGE

0~0.2, 0.3, 0.4, 0.6, 1, 1.5, 3.5MPa

WORKING PRESSURE

Steady: 75% of full scale

OVER RANGE PROTECTION

130% of full scale

ALL PRESSURE GAUGE COMPONENTS ARE SUPPLIED WITH CU AND ZN CONTENT ≤ 5%

PROCESS CONNECTION

Stainless Steel 316SS 1/8", 1/4" PT, NPT and PF



P252

Industrial Service Pressure Gauge

DIAL

63, 80, 100 and 160mm

RANGE

-0.1~0 to 0~200MPa

CASE

304SS

ELEMENT

316SS

PROCESS CONNECTION

63mm: 1/8", 1/4" PT, NPT and PF

80mm: 1/4", 3/8" PT, NPT and PF

100 and 160mm: 1/4", 3/8", 1/2" PT, NPT and PF



P757

Flush Diaphragm Type Pressure Gauge

DIAL

63, 80 and 100mm

ACCURACY

63 and 80mm: $\pm 1.6\%$ of full scale
100mm: $\pm 1.0\%$ of full scale

WORKING PRESSURE

Steady: 75% of full scale
Over range protection: 130% of full scale

DIAPHRAGM

Stainless Steel(316LSS)

PROCESS CONNECTION

Stainless Steel(316, 316L SS)
Screw connection



T190

Process Industry Bimetal Thermometer With Adjustable Stem

DIAL

75, 100, 125 and 150mm

CASE

304SS

LOCATION OF STEM

Center back with adjustable stem

PROCESS CONNECTION

$\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " PT, NPT and PF

WINDOW

Glass



F510

Integral Flow Orifice Assembly

LINE SIZE

15A-40A, $\frac{1}{2}$ "-1- $\frac{1}{2}$ "

MAIN MATERIAL

Stainless steel(304SS, 316SS)

PLATE(ELEMENT) MATERIAL

316LSS, Monel, Hastelloy-C, Etc.

ORIFICE BORE TYPE

Concentric square edged

TRANSMITTER CONNECTION

2- $\frac{1}{8}$ "(54mm) Center to Center.
DIN 19213

RANGEABILITY

5 : 1

ACCURACY

$\pm 1.0\%$ of Full Scale



F821

Metal Tube Flowmeter

LINE SIZE

15A-100A, 1/2"-4"

MAIN MATERIAL

Stainless steel(304SS, 316SS)

FLOAT MATERIAL

Stainless steel(304SS, 316SS), Teflon, Etc.

PROCESS CONNECTION

Flange Connection
Screw Connection
Clamp Connection

ACCURACY

±3.0% of Full Scale



F950

Electromagnetic Flowmeter

LINE SIZE

15A-1000A, 3/8"-40"

MAIN MATERIAL

Carbon steel + Hard Rubber
304SS + Teflon Lining

ELECTRODE MATERIAL

Titanium, 316LSS, Hastelloy-C, Etc.

PROCESS CONNECTION

Flange Connection

MEASURING RANGE

0.2-10m/s

ACCURACY

±0.5% of Full Scale(15A-800A)
±1.0% of Full Scale(900A~: It needs for site calibration.)



Experience List

WISE

LG ENERGY SOLUTION



SAMSUNG SDI



SK On



POSCO FUTURE M



SK innovation



EcoPro BM



LOTTE ENERGY MATERIALS



SungEel HiTech



Korea Zinc



Doosan Fuel Cell



HANWHA Qcells



Chunbo



GE ENERGY



GE VERNOVA



Aquatech



WISE Worldwide

THE MIDDLE EAST

SAUDI ARABIA
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OMAN
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IRAN

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FRANCE

AFRICA

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NIGERIA
EGYPT

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Organization



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