

PRESSURE TRANSDUCERS TEMPERATURE TRANSMITTERS DIGITAL INDICATORS



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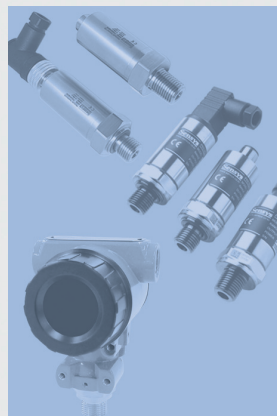
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PRESSURE TRANSDUCERS



MODEL	PHP	PSH	PSC
APPLICATIONS	Measurement and Test Benches Calibration Technology Laboratories Plant Construction & Machine Building	Process control Hydraulics & Pneumatics Compressor control Chillers Refrigeration Equipment	Off Road Equipment Hydraulic System Compressor Control Industrial Engines Pump Speed Control
TYPE OF PRESSURE MEASUREMENT	Gauge / Absolute / Vacuum	Gauge / Absolute / Vacuum	Gauge / Absolute / Vacuum
PRESSURE RANGE	0~0,1 ... 150MPa -0,1~0, 0,1 ... 150MPa	0~5kPa ... 70MPa -100kPa~0 ... 70MPa	0~5kPa ... 70MPa -100kPa~0 ... 70MPa
ACCURACY(RSS Method)	±0.035%FS	±0.15%FS	±0.25%FS
THERMAL EFFECT			
Zero	±0.025%FS/°C	±0.03%FS/°C	±0.05%FS/°C
Span	±0.025%FS/°C	±0.03%FS/°C	±0.05%FS/°C
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel & VITON or Stainless Steel & Titanium	Gases or Liquids Compatibility with Stainless Steel & VITON	Gases or Liquids Compatibility with Stainless Steel & VITON
OUTPUT			
Amplified	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(3Wire), RS232	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2,3,4Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2Wire)
Unamplified			—
EXCITATION			
Amplified	11~32VDC	11~28VDC	11~28VDC
Unamplified			—
TEMPERATURE RANGE			
Compensated	-10~50°C	-10~70°C	-10~70°C
Operating	-20~80°C	-20~80°C	-20~100°C
ELECTRICAL CONNECTION	TAJIMI Connector	Connector, Cable, Head, DIN Connector	Connector, Cable, AMP Connector Head, DIN Connector
PRESSURE PORT	R(PT)G(PF) 1/8", 1/4", 3/8"	R(PT)G(PF) 1/8", 1/4", 3/8"	R(PT)G(PF) 1/8", 1/4", 3/8"
NOTES	CE certified	CE certified IP65(DIN, Head Type) Protection	CE certified IP55(Can Type) Protection IP65(DIN, Head Type) Protection

PRESSURE TRANSDUCERS



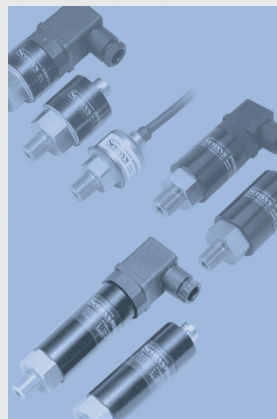
MODEL	SIG(HP)	M5200	PTE
APPLICATIONS	Process control & monitoring Hydraulics & Pneumatic Chemical & Petrochemical Liquid level measurement Food & Pharmaceutical Gas transmission pipe-line Plant utilities monitoring	Industrial Process Control Refrigeration Systems Automotive Test Stands Pumps and Compressors Hydraulic / Pneumatic	Off Road Equipment Hydraulics System Compressor control Industrial Engines Pump Speed Control
TYPE OF PRESSURE MEASUREMENT	Gauge / Absolute	Gauge	Gauge / Absolute / Vacuum
PRESSURE RANGE	0~100kPa ... 250MPa(Gauge) -100kPa~0 ... 250MPa(Gauge) 0~100kPa ... 70MPa(Absolute)	0~0.35 ... 100MPa	-100~0~100kPa ... 10MPa
ACCURACY(RSS Method)	0.035%FS	±0.5%FS	±0.5%FS
THERMAL EFFECT			
Zero	±0.025%FS	±0.05%FS/°C	±0.05%FS/°C
Span	±0.025%FS	±0.05%FS/°C	±0.05%FS/°C
MEDIA COMPATIBILITY			
	SS316L, VITON or SS316L, Ti 87%	Gases or Liquids Compatibility with Stainless Steel	Gases or Liquids Compatibility with Stainless Steel & VITON
OUTPUT			
	0~5V, 1~5V, 0~10V 4~20mA(3Wire)	0.5~4.5VDC, 0~5VDC, 1~5VDC 0~10VDC, 4~20mA(2Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2Wire)
EXCITATION			
	11~28VDC	Refer to Detail Catalogue	11~28VDC
TEMPERATURE RANGE			
Compensated	-20~60°C	-20~85°C	-10~70°C
Operating	-40~120°C	-40~125°C	-20~80°C
ELECTRICAL CONNECTION			
	G(PF) 1/2"	Packard / DIN / Mini DIN / M12 Connector Bayonet / AMP / Sumitomo Connector, Cable	Connector, Water Proof Connector, M12 Connector, Head Mini DIN Connector, Cable
PRESSURE PORT	R1/4", G1/4", R3/8", G3/8", R1/2", G1/2"	R(PT)G(PF) 1/4"	R(PT)G(PF) 1/4"
NOTES	CE certified Explosion proof approval to Ex d IIC T6 IP67 Protection	CE certified	CE certified IP65 Protection

PRESSURE TRANSDUCERS



MODEL	PMS	PMH	PMSA	PMHA	PME
APPLICATIONS	Process control Hydraulics & Pneumatics Compressor control Chillers Refrigeration Equipment		Process control Hydraulics & Pneumatics Compressor control Chillers Refrigeration Equipment		Food Process control Water Resource management Sewage Water & Slurry Glues & Resins Oils & Lubricants Cosmetics & Pulps Abrasive Liquids
TYPE OF PRESSURE MEASUREMENT	Gauge		Gauge		Gauge
PRESSURE RANGE	0~1 ... 500MPa -0.1~1 ... 500MPa		0~1 ... 500MPa -0.1~1 ... 500MPa		0~5 ... 50MPa -0.1~5 ... 50MPa
ACCURACY(RSS Method)	±0.5%FS	±0.25%FS	±0.5%FS	±0.25%FS	±0.5%FS(RSS)
THERMAL EFFECT					
Zero	±0.06%FS/°C	±0.03%FS/°C	±0.05%FS/°C	±0.02%FS/°C	±0.06%FS/°C
Span	±0.06%FS/°C	±0.03%FS/°C	±0.05%FS/°C	±0.02%FS/°C	±0.06%FS/°C
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel		Gases or Liquids Compatibility with Stainless Steel		Stainless Steel 630, 316L
OUTPUT	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2,3Wire) -		- 1.5(1.0)mV/V		0~5VDC, 1~5VDC, 0~10VDC(3,4Wire) 4~20mA(2,3Wire) -
EXCITATION	11~28VDC -		- 12VDC Max		11~28VDC -
TEMPERATURE RANGE					
Compensated	-10~70°C	-20~80°C	-10~70°C	-20~80°C	-10~50°C
Operating	-20~80°C	-30~100°C	-20~80°C	-30~100°C	-20~80°C
ELECTRICAL CONNECTION	Connector, Cable, Head, DIN Connector		Connector, Cable		Connector, Head, DIN Connector
PRESSURE PORT	R(PT) 3/8", UNF9/16"(F)		R(PT) 3/8", UNF9/16"(F)		G(PF) 3/8"
NOTES	IP65(DIN, Head Type) Protection				IP65(DIN, Head Type) Protection

PRESSURE TRANSDUCERS



MODEL	PTA	PTD	PSG
APPLICATIONS	Process control Hydraulics & Pneumatics Compressor Control Chillers Refrigeration Equipment	Process Control Hydraulics & Pneumatics Compressor control Chillers Refrigeration Equipment	Gas Leak Detection Gas Monitoring Gas & Air Process Control Vacuum System
TYPE OF PRESSURE MEASUREMENT	Gauge / Vacuum	Gauge / Vacuum	Gauge / Vacuum
PRESSURE RANGE	0~0.1 ... 500MPa -0.1~0, 0.1 ... 500MPa	0~0.3 ... 150MPa -0.1~0, 0.1 ... 150MPa	0~3 ... 1000kPa -100~0, 3 ... 1000kPa
ACCURACY(RSS Method)	±0.5%FS	±0.5%FS	±0.5%FS
THERMAL EFFECT			
Zero	±0.05%FS/°C	±0.05%FS/°C	±0.06%FS/°C
Span	±0.05%FS/°C	±0.05%FS/°C	±0.06%FS/°C
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel & Titanium	Gases or Liquids Compatibility with Stainless Steel & Titanium	Air or Gas or Transmission Oil
OUTPUT			
Amplified	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2,3Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2Wire)
Unamplified	10mV/V		
EXCITATION			
Amplified	11~28VDC	11~28VDC	11~28VDC
Unamplified	12VDC Max		
TEMPERATURE RANGE			
Compensated	-10~70°C	-10~70°C	-10~70°C
Operating	-30~100°C	-20~100°C	-20~80°C
ELECTRICAL CONNECTION	Connector, Head, DIN Connector	Connector, Cable Head, DIN Connector	Connector, Cable, Head, DIN Connector
PRESSURE PORT	R(PT)G(PF) 1/8", 1/4", 3/8"	R(PT)G(PF) 1/8", 1/4", 3/8"	R(PT)G(PF) 1/8", 1/4", 3/8"
NOTES	CE certified IP65(DIN, Head Type) Protection	CE certified IP65(DIN, Head Type) Protection	IP65(DIN Type) Protection

PRESSURE TRANSDUCERS



MODEL	PCA	PCL	PSH(Flush Diaphragm)
APPLICATIONS	Semiconductor Manufacturing Equipment High-purity Fluids Chemical Process Physics and Chemistry Equipment Waste Disposing Equipment	Semiconductor Manufacturing Equipment High-purity Fluids Chemical Process Physics and Chemistry Equipment Waste Disposing Equipment	Process control Water resource management Sewage water & slurry Glues & Resins Oil & Lubricants
TYPE OF PRESSURE MEASUREMENT	Gauge	Gauge	Gauge / Absolute / Vacuum
PRESSURE RANGE	0~100kPa ... 1MPa	0~100kPa ... 1MPa	0~5kPa ... 3.5MPa -100kPa~0 ... 3.5MPa
ACCURACY(RSS Method)	±1%FS	±0.5%FS	±0.15%FS
THERMAL EFFECT			
Zero	±0.1%FS/°C	±0.06%FS/°C	±0.03%FS/°C
Span	±0.1%FS/°C	±0.06%FS/°C	±0.03%FS/°C
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with PTFE	Gases or Liquids Compatibility with Al ₂ O ₃ 96%, PP, VITON, PTFE	Gases or Liquids Compatibility with Stainless Steel & VITON
OUTPUT	4~20mA(2Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2,3Wire)	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2,3,4Wire)
EXCITATION	11~28VDC	11~28VDC	11~28VDC
TEMPERATURE RANGE			
Compensated	10~50°C	-10~70°C	-10~70°C
Operating	10~70°C	-20~80°C	-20~80°C
ELECTRICAL CONNECTION	Cable	DIN Connector	Connector, Cable, Head, DIN Connector
PRESSURE PORT	R(PT) G(PF) 1/4", 3/8"	R(PT) G(PF) 1/2", Union	R(PT)G(PF) 3/4"
NOTES		IP65 Protection	CE certified IP65(DIN, Head Type) Protection

DIFFERENTIAL PRESSURE TRANSMITTER & GAUGES



MODEL	SIG(DL)		SSD		SMA(DL)	
APPLICATIONS	Process control & monitoring Hydraulics & Pneumatic Chemical & Petrochemical Liquid level measurement		Corrosive Fluid Gas Measurement Liquid Level Controls Tank Level Measurement Leak Tester System Lab/Fume Hood Control		Corrosive Fluid Gas Measurement Liquid Level Controls Tank Level Measurement Leak Tester System	
DISPLAY TYPE	±19999(4 1/2) Backlight LCD		LED ±1999		LED(Red Color) ±1999 Digit	
TYPE OF PRESSURE MEASUREMENT			Differential		Differential	
PRESSURE RANGE	0~5kPa ... 3.5MPa		0~5kPa ... 3.5MPa	0~0.1 ... 2.5MPa	0~5kPa ... 3.5MPa	0~100kPa ... 2.5MPa
ACCURACY(RSS Method)	±0.2%FS ± 1digit		±0.3%FS	±0.5%FS	±0.5%FS	±0.8%FS
THERMAL EFFECT						
Zero	±0.03%FS /°C		±0.05%FS/°C	±0.05%FS/°C	±3%FS	±3%FS
Span	±0.03%FS /°C		±0.05%FS/°C	±0.05%FS/°C		
MEDIA COMPATIBILITY	SS316L, VITON		Gases or Liquids Compatibility with Stainless Steel, VITON		Gases or Liquids Compatibility with Stainless Steel, VITON	
OUTPUT	4~20mA(2Wire)	4~20mA(3Wire) 0~5V, 1~5V, 0~10V 2CH-Relay RS485	1~5VDC, 2CH-Relay 4~20mA(3Wire), 2CH-Relay		1~5, 0~5, 0~10VDC, 4~20mA 2CH NPN or PNP TR	
EXCITATION	11~28VDC	17~28VDC	18~26VDC		12~24VDC±10%	
TEMPERATURE RANGE						
Compensated	-20~60°C		-10~70°C		0~50°C	
Operating	-40~120°C		-20~80°C		-20~80°C	
ELECTRICAL CONNECTION	G(PF) 1/2"		Cable DIN Connector		Connector	
PRESSURE PORT	R(PT)1/4"(F) UNF 7/16(Flare Fitting)		R(PT) 1/4"(F) UNF 7/16(Flare Fitting)		R(PT) 1/4"(F) UNF 7/16(Flare Fitting)	
NOTES	CE certified Explosion Proof approval to Ex d IIC T6 IP67 Protection		CE certified IP65 Protection		CE certified	

DIFFERENTIAL PRESSURE TRANSMITTER & GAUGES



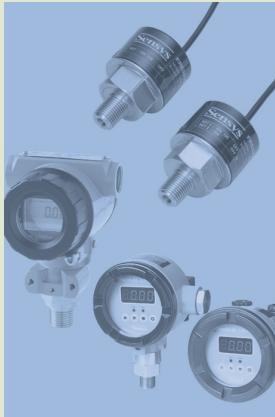
MODEL	DWS		DPC	DPL/DPD	DPU		
APPLICATIONS	Corrosive Fluid Gas Measurement Liquid Level Controls Tank Level Measurement Leak Tester System Lab/Fume Hood Control		Airflow Measurement Room Static Pressure VAV Box Lab/Fume Hood Control Clean Room Control		Airflow Measurement Room Static Pressure VAV Box Lab/Fume Hood Control Clean Room Control		
DISPLAY TYPE			—	LCD ±1999	LCD ±9999(Bar Graph)		
TYPE OF PRESSURE MEASUREMENT	Differential		Differential		Differential		
PRESSURE RANGE	0~5kPa ... 3.5MPa	0~0.1 ... 2.5MPa	0~300Pa ... 100kPa		50, 100Pa ±50, ±100Pa	200, 300Pa ±200, ±300Pa	500, 1000Pa ±500, ±1000Pa
ACCURACY(RSS Method)	±0.25%FS	±0.5%FS	±0.5%FS		±1%FS	±0.5%FS	±0.3%FS
THERMAL EFFECT							
Zero	±0.05%FS/°C	±0.05%FS/°C	±0.08%FS/°C		±0.1%FS/°C	±0.05%FS/°C	±0.03%FS/°C
Span	±0.05%FS/°C	±0.05%FS/°C	±0.08%FS/°C		±0.1%FS/°C	±0.05%FS/°C	±0.03%FS/°C
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel, VITON		Dry Air or Non-ionic Gases		Dry Air or Non-ionic Gases		
OUTPUT	0~5VDC, 1~5VDC, 0~10VDC 4~20mA(2Wire)		4~20mA(2Wire)		4~20mA(2Wire)		
EXCITATION	11~28VDC		11~28VDC	14~28VDC	11~28VDC		
TEMPERATURE RANGE							
Compensated	-10~70°C		0~50°C		0~50°C		
Operating	-20~80°C		-10~70°C		-10~70°C		
ELECTRICAL CONNECTION	Connector, Cable, Head, DIN Connector		Cable	Cable Gland / Cable	Terminal		
PRESSURE PORT	R(PT) 1/4"(F) UNF 7/16(Flare)		1/8" Nipple	1/8", 3/16" Nipple / 1/8" Nipple	1/8", 3/16" Nipple		
SIZE			50.5 X 52.5 X 40mm	80 X 110 X 70mm / 50 X 65 X 56.5mm	80 X 110 X 45mm		
NOTES	CE certified IP65(DIN, Head Type) Protection			IP66 Protection / —	CE certified		

DIFFERENTIAL PRESSURE TRANSMITTER & GAUGES



MODEL	DPB				DPM				SMA(DA)			
APPLICATIONS	Airflow Measurement Room Static Pressure VAV Box Lab/Fume Hood Control Clean Room Control				Airflow Measurement Room Static Pressure VAV Box Lab/Fume Hood Control Clean Room Control				Airflow Measurement Room Static Pressure VAV Box Lab/Fume Hood Control Clean Room Control			
DISPLAY TYPE	LED ±1999				LED ±1999				LED(Red Color) ±1999 Digit			
TYPE OF PRESSURE MEASUREMENT	Differential				Differential				Differential			
PRESSURE RANGE	50Pa ±50Pa	100Pa ±100Pa	200Pa, 300kPa ±200Pa, ±300kPa	500Pa...100kPa ±500Pa...±100kPa	50Pa ±50Pa	100Pa ±100Pa	200Pa, 300kPa ±200Pa, ±300kPa	500Pa...100kPa ±500Pa...±100kPa	50Pa ±50Pa	100Pa ±100Pa	200Pa, 300kPa ±200Pa, ±300kPa	500Pa...100kPa ±500Pa...±100kPa
ACCURACY(Total 0~50℃)	±5%FS	±3%FS	±1.5%FS	±1%FS	±5%FS	±3%FS	±1.5%FS	±1%FS	±5%FS	±3%FS	±1.5%FS	±1%FS
OPERATING Temperature Range	-5~65℃ (No freezing or condensation)				-5~65℃ (No freezing or condensation)				-5~65℃ (No freezing or condensation)			
MEDIA COMPATIBILITY	Dry Air or Non-ionic Gases				Dry Air or Non-ionic Gases				Dry Air or Non-ionic Gases			
OUTPUT Analog Switching Digital	1~5, 0~5, 0~10VDC, 4~20mA 2CH-Relay, 2CH NPN or PNP TR RS485 MODBUS RTU				1~5, 0~5, 0~10VDC, 4~20mA 2CH NPN TR -				1~5, 0~5, 0~10VDC, 4~20mA 2CH NPN or PNP TR -			
EXCITATION	12~24VDC(Relay Type : 18~24V)				12~24VDC				12~24VDC ±10%			
ELECTRICAL CONNECTION	Terminal				6Pin e-CON Connector				Connector			
PRESSURE PORT	1/8" Nipple				1/8" Nipple				Ø 4.8 resin piping : Only ≤ ±10kPa, M5(F)			
SIZE	48 X 48 X 69mm				48 X 24 X 91mm				30 X 30 X 33mm			
NOTES	CE certified				CE certified				CE certified			

DIGITAL PRESSURE GAUGES & SWITCHES



MODEL	PSO	SIG		SSG	
APPLICATIONS	Process Control Hydraulics & Pneumatics Compressor control Chillers Refrigeration Equipment	Process Control & Monitoring Hydraulic & Pneumatic System Chemical & Petrochemical Tank Level Measurement Gas Transmission Pipeline		Process Control Hydraulics & Pneumatic Compressor control Chillers Refrigeration Equipment	
DISPLAY TYPE		LCD(Backlight) ± 19999		LED ± 1999	
TYPE OF PRESSURE MEASUREMENT	Gauge / Vacuum	Gauge / Absolute / Vacuum		Gauge / Absolute / Vacuum	
PRESSURE RANGE	0~1 ... 50MPa -0.1~1 ... 50MPa	0~5kPa ... 70MPa -100kPa~0 ... 70MPa	0~71 ... 500MPa	0~5kPa ... 3.5MPa -100kPa~0 ... 3.5MPa	0~3.6 ... 500MPa
ACCURACY(RSS Method)	$\pm 1\%FS$	$\pm 0.2\%FS$	$\pm 0.5\%FS$	$\pm 0.5\%FS$	$\pm 0.8\%FS$
THERMAL EFFECT					
Zero	$\pm 0.1\%FS/^{\circ}C$	$\pm 0.03\%FS/^{\circ}C$	$\pm 0.05\%FS/^{\circ}C$	$\pm 0.05\%FS/^{\circ}C$	$\pm 0.08\%FS/^{\circ}C$
Span	$\pm 0.1\%FS/^{\circ}C$	$\pm 0.03\%FS/^{\circ}C$	$\pm 0.05\%FS/^{\circ}C$	$\pm 0.05\%FS/^{\circ}C$	$\pm 0.08\%FS/^{\circ}C$
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel	Gases or Liquids Compatibility with Stainless Steel, VITON	Gases or Liquids Compatibility with Stainless Steel & Ti	Gases or Liquids Compatibility with Stainless Steel, VITON or Stainless Steel & Ti	
OUTPUT					
Analog		4~20mA(2,3Wire), 0~5, 1~5, 0~10VDC		1~5VDC, 4~20mA(3Wire)	
Switching	1 or 2CH NPN Open Collector	2CH Relay RS485		2CH Relay —	
EXCITATION	11~28VDC	17~28VDC(4~20mA(2Wire):11~28VDC)		18~26VDC	
TEMPERATURE RANGE					
Compensated	-10~70 $^{\circ}C$	-20~60 $^{\circ}C$ (Ambient)		-10~70 $^{\circ}C$	
Operating	-20~80 $^{\circ}C$	-40~120 $^{\circ}C$ (Process)		-20~80 $^{\circ}C$	
ELECTRICAL CONNECTION	Cable	G(PF) 1/2"		Cable DIN Connector	
PRESSURE PORT	R(PT)G(PF) 1/8", 1/4", 3/8"	R(PT)G(PF) 1/4", 3/8", 1/2"		R(PT)G(PF) 1/4", 3/8"	
NOTES		CE certified Explosion Proof approval to Ex d IIC T6 IP67 Protection		CE certified IP65 Protection	

DIGITAL PRESSURE GAUGES & SWITCHES



MODEL	SMA(EX)	SMA	SMA(CR)
APPLICATIONS	Pressure monitoring in the hazardous areas Process control Hydraulics & Pneumatic Compressor Control Chillers Refrigeration Equipment	Process Control Hydraulics & Pneumatic Compressor control Chillers Refrigeration Equipment	Semiconductor Manufacturing Equipment High-purity Fluids Chemical Process Physics and Chemistry Equipment Waste Disposing Equipment
DISPLAY TYPE	LED(Red Color) ±1999 Digit	LED ±1999	LED(Red Color) ±1999 Digit
TYPE OF PRESSURE MEASUREMENT	Gauge / Absolute / Vacuum	Gauge / Absolute / Vacuum	Gauge
PRESSURE(Depth) RANGE	-100~0~100kPa ... 70MPa	-100~0~100kPa ... 70MPa	0~100kPa ... 1MPa
ACCURACY(RSS Method)	±0.5%FS (25℃)	±0.5%FS	±1%FS
THERMAL EFFECT Zero Span	±3%FS(0~50℃)	±3%FS(0~50℃)	±0.06%FS/℃ ±0.06%FS/℃
MEDIA COMPATIBILITY	Corrosive Gases / Liquids compatible with STS316L	Air or Gases / Liquids Compatibility with Stainless Steel	Gases or Liquids Compatibility with PTFE, VITON or Perfluoroelastomer
OUTPUT Analog Switching Digital	1~5, 0~5, 0~10VDC(±2%FS) 2CH NPN or PNP open collector —	0~5, 1~5, 0~10VDC, 4~20mA(3Wire) 2CH NPN or PNP TR —	1~5, 0~5, 0~10VDC, 4~20mA 2CH NPN or PNP TR
EXCITATION	12~24VDC	12~24VDC	12~24VDC±10%
TEMPERATURE RANGE Compensated Operating	-20~50℃	0~50℃ -10~50℃	-10~70℃ -20~80℃
ELECTRICAL CONNECTION		Connector Cable	Connector
PRESSURE PORT	R(PT)1/4", G(PF)1/4", NPT1/4", 1/4" LOK Fitting, 9/16-18UNF VCR	Rc(PT)1/8", R(PT)1/8", R(PT)1/4", 1/4" LOK Fitting, 9/16-18UNF VCR	R(PT) G(PF) 1/4", 3/8", 1/2" Sleeve1/4", Flare1/4"
NOTES	CE certified Explosion proof to Ex nAnC IIC T6(Kcs, NEPSI)	CE certified	CE certified

DIGITAL PRESSURE GAUGES & SWITCHES



MODEL	SBP	SBU	SBH	SBS
APPLICATIONS	Portable Field Calibration Process monitoring & Control Valve & Regulator Test Chart Recorder Replacement Leak Test	Portable Field Calibration Process monitoring & Control Valve & Regulator Test Chart Recorder Replacement Leak Test	Portable Field Calibration Process monitoring & Control Valve & Regulator Test Leak Test	
DISPLAY TYPE	LCD(Backlight) ± 99999	LCD(Backlight) ± 19999	LCD(Backlight) ± 5000	LCD(Backlight) ± 3000
TYPE OF PRESSURE MEASUREMENT	Gauge / Absolute / Vacuum	Gauge / Absolute / Vacuum	Gauge / Absolute / Vacuum	
PRESSURE RANGE	0~15kPa ... 150MPa -100kPa~100kPa ... 150MPa	0~100kPa ... 70MPa -100kPa~100kPa ... 3.5MPa	0~100kPa ... 500MPa -100kPa~100kPa ... 3.5MPa	0~100kPa ... 10MPa
ACCURACY(RSS Method)	$\pm 0.025\%FS$ (Gauge) Total Accuracy $\pm 0.05\%FS$ (Absolute) Total Accuracy	$\pm 0.1\%FS$ Total Accuracy	$\pm 0.25\%FS$	$\pm 0.5\%FS$
THERMAL EFFECT Zero Span			$\pm 0.03\%FS/^{\circ}C$ $\pm 0.03\%FS/^{\circ}C$	$\pm 0.05\%FS/^{\circ}C$ $\pm 0.05\%FS/^{\circ}C$
MEDIA COMPATIBILITY	Gases or Liquids Compatibility with Stainless Steel / VITON or Ti or Air or Gases	Air or Gases / Liquids Compatibility with Stainless Steel	Air or Gases / Liquids Compatibility with Stainless Steel	
OUTPUT Analog Switching Digital	4~20mA or 0~5VDC(External Excitation) — RS232(Optional)	1~5VDC(Optional) — RS232(Optional)		
EXCITATION	AA Size Alkaline Battery $\times 3$ External : 12~28VDC	AAA Size Alkaline Battery $\times 3$ External : 12~28VDC	AAA Size Alkaline Battery $\times 3$	9V Alkaline Battery $\times 1$
TEMPERATURE RANGE Compensated Operating	-10~50 $^{\circ}C$ -20~80 $^{\circ}C$	-10~50 $^{\circ}C$ -20~70 $^{\circ}C$	-10~50 $^{\circ}C$ -20~70 $^{\circ}C$	-10~50 $^{\circ}C$ -20~70 $^{\circ}C$
ELECTRICAL CONNECTION	D-SUB 9Pin Connector	Connector Cable		
PRESSURE PORT	G(PF)1/4", NPT1/4", 9/16UNF	G(PF)1/4", NPT1/4"	G(PF)1/4", NPT1/4"	G(PF)1/4", NPT1/4"
NOTES		CE certified IP65	CE certified IP65	CE certified

LEVEL(DEPTH) TRANSMITTERS



MODEL	PLS	PLN	PLA	SIL
APPLICATIONS	Tank Level Measurement Deep Well Measurement Ship & Marine System Ground & Surface Water Monitoring Geophysical Application Water Supply & Reservoirs	Tank Level Measurement Deep Well Measurement Ship & Marine System Ground & Surface Water Monitoring Geophysical Application		Tank Level Measurement Deep Well Measurement Ship & Marine System Ground & Surface Water Monitoring Geophysical Application
DISPLAY TYPE				LCD(Backlight) ±19999
TYPE OF PRESSURE MEASUREMENT	Gauge / Absolute	Gauge / Absolute		Gauge / Absolute
RANGE Depth(Water) Temperature	0~3 ... 350 mH ₂ O	0~1 ... 350m		0~1 ... 350m
ACCURACY(RSS Method) Depth(Water) Temperature	±0.25%FS	±0.15%FS		±0.2%FS
THERMAL EFFECT Zero Span	±0.05%FS/°C ±0.05%FS/°C	±0.03%FS/°C ±0.03%FS/°C		±0.03%FS/°C ±0.03%FS/°C
MEDIA COMPATIBILITY	Titanium or Stainless Steel 316L	Liquids Compatibility with Stainless Steel		Liquids Compatibility with Stainless Steel
OUTPUT Analog Switching Digital	4~20mA(2Wire)	4~20mA(2Wire), 1~5VDC	4~20mA(2Wire)	4~20mA(2Wire) 0~5, 1~5, 0~10V, 4~20mA(3Wire) 2CH Relay RS485
EXCITATION	11~28VDC	11~28VDC		11~28VDC 17~28VDC
TEMPERATURE RANGE Compensated Operating	0~70°C -20~80°C	0~70°C -20~80°C		0~70°C -20~80°C
ELECTRICAL CONNECTION	Polyurethane Vented Cable	Polyurethane Vented Cable		Cable Gland(PF1/2")
PRESSURE PORT	G(PF) 3/4", Nose Cone	G(PF)1/4", Nose Cone	G(PF)1/2", Nose Cone	G(PF) 1/4", Nose Cone
NOTES	Sensor : IP68	Sensor part : IP68 Protection Individual Amp. Built-in Amp.		Sensor part : IP68 Protection Display part : IP67 Protection

TEMPERATURE TRANSMITTERS



MODEL	TIG	TSG	TBH	TBS
DISPLAY TYPE	LCD(Backlight) ± 19999	LED ± 1999	LCD(Backlight) ± 5000	LCD(Backlight) ± 3000
TYPE OF TEMPERATURE MEASUREMENT	PT100 Ω	PT100 Ω	PT100 Ω	
TEMPERATURE RANGE		$-50 \sim 400^{\circ}\text{C}$	$-50 \sim 400^{\circ}\text{C}$	
ACCURACY	$\pm 0.2\%\text{FS}$	$\pm 0.8\%\text{FS}$	$\pm 0.5\%\text{FS}$	$\pm 1\%\text{FS}$
MATERIALS WETTED BY PROCESS	Stainless Steel 316 or Others Available on Request	Stainless Steel 316 or Others Available on Request	Stainless Steel 316 or Others Available on Request	
OUTPUT Analog Switching Digital	4~20mA(2, 3Wire), 0~5, 1~5, 0~10VDC 2CH-Relay RS485	1~5VDC, 4~20mA(3Wire) 2CH-Relay —	— — —	—
INPUT SIGNAL	—	—	—	
EXCITATION	17~28VDC(4~20mA(2Wire):11~28VDC)	18~26VDC	AAA Size Alkaline Battery $\times 3$	9V Alkaline Battery $\times 1$
AMBIENT TEMPERATURE RANGE Operating Storage	$-20 \sim 60^{\circ}\text{C}$ (Ambient) $-40 \sim 100^{\circ}\text{C}$	$-20 \sim 80^{\circ}\text{C}$ $-40 \sim 100^{\circ}\text{C}$	$-10 \sim 50^{\circ}\text{C}$ $-20 \sim 70^{\circ}\text{C}$	
ELECTRICAL CONNECTION	G(PF)1/2"	Cable DIN Connector	—	
PROCESS CONNECTION	R(PT)G(PF) 1/4", 3/8", 1/2" Flange & Other Connection Available on Request	R(PT)G(PF) 3/8", 1/2" Flange & Other Connection Available on Request	Connection Available on Request	
NOTES	CE certified Explosion Proof Approval to Ex d IIC T6 IP67 Protection	IP65 Protection	IP65 Protection	—

TEMPERATURE TRANSMITTERS & SENSORS



MODEL	TSRT / TA100		TC / STC	RT / SRT
DISPLAY TYPE	—			
TYPE OF TEMPERATURE MEASUREMENT	PT100 Ω		Thermocouple	PT100
TEMPERATURE RANGE	−50~400℃	−50~500℃	−200~1700℃	−200~500℃
ACCURACY	±0.5%FS	±0.2%FS	±0.25~1.5%Rd	A, B Class
MATERIALS WETTED BY PROCESS	Stainless Steel 316 or Others Available on Request	—	Stainless Steel or Others Available on Request	Stainless Steel or Others Available on Request
OUTPUT Analog Switching Digital	4~20mA(2Wire) — —		EMF	Resistance
INPUT SIGNAL	—	PT100	—	—
EXCITATION	11~28VDC		—	—
AMBIENT TEMPERATURE RANGE Operating Storage	−20~80℃ −40~100℃	−10~60℃ −20~70℃	—	—
ELECTRICAL CONNECTION	Connector, Head DIN Connector	Terminal	Head or Other Available on Request	Head or Other Available on Request
PROCESS CONNECTION	R(PT)G(PF) 3/8", 1/2" Flange & Other Connection Available on Request	—	Flange & Other Connection Available on Request	Flange & Other Connection Available on Request
NOTES	IP65 Protection (Only DIN Connector, Head)	—	IP65(Head Type) Protection	IP65(Head Type) Protection

DIGITAL INDICATORS 96mm(W) × 48mm(H) × 111.5mm(D)



MODEL	A1-1000	A1-2000
DISPLAY TYPE Max Readout Reading Rate Height of Digits	LED(Red Color) ±9999 0.3 ~ 9.9sec 20mm	LED(3 Color LED : Red/Green/Yellow) ±19999 10, 50, 100, 250, 500, 1000ms 20mm
PHYSICAL Operating Temperature Storage Temperature Weight	-10~50℃ (10~90%RH) -20~80℃ (5~95%RH) 230g	-10~50℃ (10~90%RH) -20~80℃ (5~95%RH) 230g
DIMENSIONS Panel Cutout Dimensions Front Panel	1/8DIN : 92×46mm 96mm(W)×48mm(H)×111.5mm(D)	1/8DIN : 92×46mm 96mm(W)×48mm(H)×111.5mm(D)
ELECTRICAL DATA Power Sensor Power	AC90~250V (50/60Hz) or DC11~32V 24VDC (45mA)	AC90~250V (50/60Hz) or DC11~32V 5, 10, 24VDC (45mA) Load Cell : 5, 10VDC
ACCURACY	±0.1%FS±1digit	±0.1%FS±1digit
THERMAL EFFECT	±0.02%FS/℃	±0.02%FS/℃
OUTPUT Contact Analog Digital	AL1, AL2, GO Relay Option : 0~5, 1~5, 0~10V, 4~20mA Option : RS485(Modbus RTU)	AL1, AL2, GO Relay Option : 0~5, 1~5, 0~10V, 4~20mA Option : RS485(Modbus RTU)
INPUT SIGNAL	0~5, 1~5, 0~10V, 4~20mA	V, mV, mA, Load Cell, RTD, T/C
DIGITAL INPUT	—	PEAK, RESET(ZERO), HOLD
FUNCTION	• Lock On/Off • Zero-Adjustment • Factory Reset • Error Information • Input Signal Control • Response Rate Control • Firmware Update Information • Special Functions(Root, Square) • Display Scale Control • Decimal Point Control • Display Lower-Limit Control • Alarm HI/LOW Setting • Analog Output Signal Setting • Analog Output Scale Setting • Analog Output Calibration • Peak Setting • Communication Setting	• Lock On/Off • Zero-Adjustment • Factory Reset • Error Information • Input Signal Control • Response Rate Control • Firmware Update Information • Special Functions(Root, Square) • Display Scale Control • Decimal Point Control • Display Lower-Limit Control • Alarm of Signal Disconnection for Temperature Sensor • Alarm HI/LOW Setting • Analog Output Signal Setting • Analog Output Scale Setting • Analog Output Calibration • Peak Setting • Communication Setting • SENSOR POWER Control • Digital Input Signal Control • Display Response Rate Control • Digit Color Control

DIGITAL INDICATORS 96mm(W) × 48mm(H) × 110mm(D)



MODEL	SC1100 / SC1400	SC2100 / SC2400	SC1300 / SC1500	SC2300 / SC2500
DISPLAY TYPE Max Readout Reading Rate Height of Digits	LED(Red Color) ±19999 15 or 30 or 120 times/sec 14mm(0.55inch)		LED(Red Color) ±19999 15 or 30 or 120 times/sec 14mm(0.55inch)	
PHYSICAL Operating Temperature Storage Temperature Weight	0~50℃ -40~80℃ Approx. 600g(Unit Only)		0~50℃ -40~80℃ Approx. 500g(Unit Only)	
ELECTRICAL DATA Power Transducer Input Excitation	85~245VAC (50/60Hz) 5VDC 24VDC(3~28VDC)		85~245VAC (50/60Hz) 5VDC 24VDC(3~28VDC)	
ACCURACY (READOUT ONLY) 0~50℃	±0.02%R±1digit		±0.02%R±1digit	
ANALOG OUTPUT	0~5VDC, 0~10VDC 1~5VDC, 4~20mA		-	
OUTPUT Standard Option	High, Low Relay Contact(C Contact) / 4CH Relay Contact(A Contact) Open Collector TR		High, Low Relay Contact(A Contact) / - Open Collector TR / -	
INPUT SIGNAL	1~3mV/V	0~5VDC, 0~10VDC 1~5VDC, 4~20mA	1~3mV/V	0~5VDC, 0~10VDC 1~5VDC, 4~20mA
TRANSDUCER CURRENT DRIVE	120mA	100mA	120mA	100mA
AMPLIFIER FREQUENCY RESPONSE	5kHz		5kHz	
EXTERNAL CONTROL	Peak Hold, Data Hold, Zero		- / Peak Hold, Zero	- / Peak Hold, Zero
COMPARATIVE CONDITION	High, Low Setpoint / 4CH Setpoint	High, Low Setpoint / 4CH Setpoint	High, Low Setpoint / -	High, Low Setpoint / -
DECIMAL POINT	Settable to 3 Digit Position		Settable to 3 Digit Position	
ZERO DISPLAY	Leading Zero Suppression		Leading Zero Suppression	

DIGITAL INDICATORS 96mm(W) × 48mm(H) × 110mm(D)



MODEL	SC110E / SC110R	SC210E / SC210R	SC110H / SC210H	
DISPLAY TYPE Max Readout Reading Rate Height of Digits	LED(Red Color) ±19999 15 or 30 or 120 times/sec 14mm(0.55inch)		LED(Red Color) ±19999 1kHz/sec 14mm(0.55inch)	
PHYSICAL Operating Temperature Storage Temperature Weight	0~50℃ -40~80℃ Approx. 600g(Unit Only)		0~50℃ -40~80℃ Approx. 600g(Unit Only)	
ELECTRICAL DATA Power Transducer Input Excitation	85~245VAC (50/60Hz) 5VDC 24VDC(3~28VDC)		85~245VAC (50/60Hz) 5VDC 24VDC(3~28VDC)	
ACCURACY (READOUT ONLY) 0~50℃	±0.02%R±1digit		±0.02%R±1digit	
ANALOG OUTPUT	0~5VDC, 0~10VDC 1~5VDC, 4~20mA		0~5VDC, 0~10VDC 1~5VDC, 4~20mA	
OUTPUT Standard	High, Low Relay Contact(A Contact) RS-485 / High, Low Relay Contact(A Contact) RS-232C Open Collector TR		High, Low Relay Contact(C Contact)	
Option	High, Low Relay Contact(A Contact) RS-485 / High, Low Relay Contact(A Contact) RS-232C Open Collector TR		Open Collector TR	
INPUT SIGNAL	1~3mV/V	0~5VDC, 0~10VDC 1~5VDC, 4~20mA	1~3mV/V	0~5VDC, 0~10VDC 1~5VDC, 4~20mA
TRANSDUCER CURRENT DRIVE	120mA	100mA	120mA	100mA
AMPLIFIER FREQUENCY RESPONSE	5kHz		5kHz	
EXTERNAL CONTROL	Peak Hold, Data Hold, Zero		Peak Hold, Data Hold, Zero	
COMPARATIVE CONDITION	High, Low Setpoint		High, Low Setpoint	
DECIMAL POINT	Settable to 3 Digit Position		Settable to 3 Digit Position	
ZERO DISPLAY	Leading Zero Suppression		Leading Zero Suppression	



SENSOR SYSTEM TECHNOLOGY CO.,LTD.

ADD : Rm.5010, Ansan Digital Park, 81, Neungan-ro,
Danwon-Gu, Ansan-Si, Gyeonggi-Do, Korea
TEL : 82-31-310-8910~9
FAX : 82-31-310-8920
<http://www.sensys.co.kr>
E-mail : master@sensys.co.kr

* Specifications are subject to change without notice.