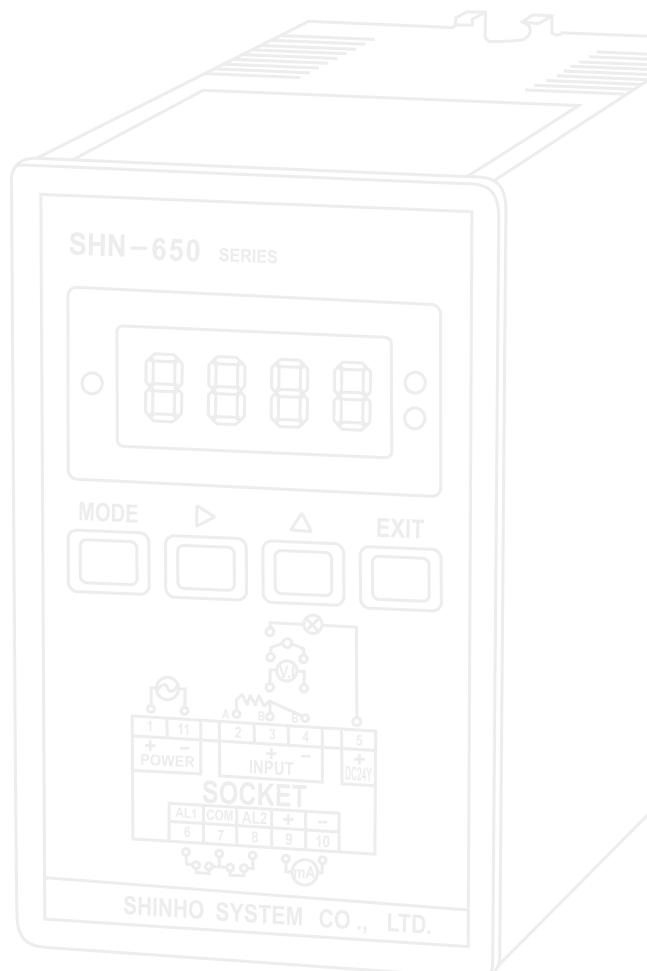
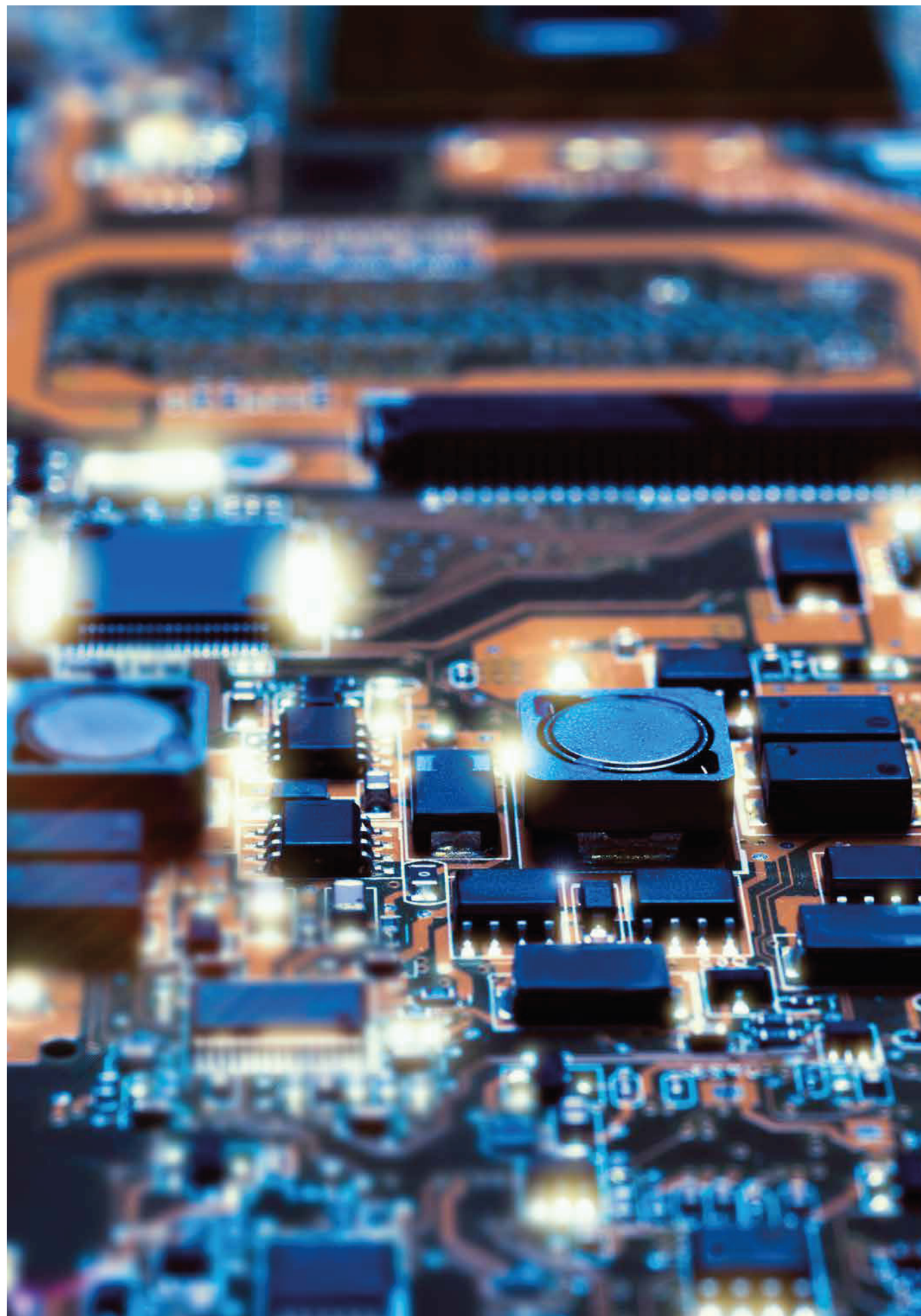


RIGHTEOUSNESS ENDEAVOR CREATION SHINHO SYSTEM





The world's best signal converter company

SHINHO SYSTEM CO., LTD. was established on October, 20th, 1988. We specialize in instruments such as signal converters, digital indicators, surge arresters and so on.

As one of **leading manufactures** in Korea, our major customers are power plants, steel manufacturers, oil refiners, sewage utilities, and chemical companies.

We acquired **ISO9001** and **CE certification** which gives concrete customer satisfaction and systematic management. Also, for customer satisfaction, we meet their needs as providing products customized.

We will do our best with our motto
"Righteousness, Endeavor, and Creation"

OVERVIEW

Establishment	1988
Location	Gyeonggi-do, South Korea
Business territory	Measuring instrument manufacture
Capital	Us Dollar 3,700,000
Employee	25
Contact	Tel : 82-32-582-3535 Fax : 82-32-582-3674 E-Mail : overseas@shinhsystem.com
Website	www.shinhsystem.com

History

1988. Oct.

Established SHINHO SYSTEM

1989. Feb.

Developed signal converter, digital indicator, surge arrester

1994. Jun.

Developed Totalizer, Counter, Program Indicator/Converter

1996. Jul.

Relocated Factory in Incheon South Korea
Developed Bar Graphic Indicator

1997. Mar.

Developed New Converters : SHN-Series

2001. Apr.

Research Center for Korea Industrial Technology Association

2002. Oct.

Seoul Head office was founded (R&D, Sales Dept.)

2003. Oct.

Development and sale Program F/I converter and Multi Input Bar-Graphic

2006. Mar.

Developed SHN-2800 pulse type

2006. Nov.

Developed 2-WIRE temperature transmitter
Selected as Technology innovation small and medium-sized businesses (INNO-BIZ)

2007. May.

Finish development in domestically producing multiplex temperature signal converter that applied gas turbine purpose fieldbus (KEPCO)

2009. Mar.

Development and sale 2 Color multi input indicator (PRI-5000 Series)

2010. Apr.

Registration equipment manufacturer to Korea South-East Power Co. Ltd.

2011. Feb.

Development equipment full equipment eligibility company certification – Korea Midland Power Co., Ltd.

2013. Jan.

Development of The sea water electrolyzing system (Korea South-East Power Co.,Ltd.)

2015. Nov.

Development of wireless monitoring system for a coal yard coal temperature

2016. Feb.

Moving office to Bucheon

The world's best signal converter company

Business Contents



Panel Instrument

- Signal Converter / Digital Indicator / Surge Protect Device



Measuring Instrument

- Ultrasonic Flowmeter / Electromagnetic Flowmeter



Electrical Contractor

- Information and Communication Contractor / Electrical Contractor



Design Outsourcing

- Sewage Treatment Plant / Filtration Plant Design



SHINHO SYSTEM

Research and Service / Product Development

NO	Project	Ordering	Study Period
1	Development of the sea water electrolyzing system	Development of dissolved oxygen sensor and controller with long-lived technique	2011.07 ~ 2012.11
2	Development of multi input type temperature signal translator	Small and medium business administration	2013.10 ~ 2014.09
3	Development of temperature compensated gas ultrasonic flow meter	Korea industrial complex corporation	2014.06 ~ 2015.05
4	Development of voratile isolation signal transmitter	Korea South-East Power	2014.11 ~ 2015.10
5	Development of cross link own contraction type insulation analysis cable mating with eco- silicon	Small and medium business administration	2014.06 ~ 2016.06
6	Development of dissolved oxygen sensor and controller with long-lived technique	Korea industrial complex coporation	2015.09 ~ 2016.08

Certificates

ISO Certificate



Certificate of technique confirmation (Signal converter)



CE Certificate



Certificate of technique confirmation (Indicator)



The world's best signal converter company



SIGNAL CONVERTER

A Signal Converter is a device that converts signals from sensors to industrial current signals, converts analog input signals to analog output signals, normalizes signals, or isolates signals. The electronic signals that are detected by a detector are different in nature because of differences in the data that was measured (e.g., temperatures, pressures, and voltages). This makes it difficult to input the data directly into control circuits. Therefore, it is necessary to covert or normalize the data to a signal form that is easy to use.

Plug-In Type

Model	SHN-Series	SHN-500 Series
		
Function	• Transmit DC signal in isolated condition. - Isolation between control room and filed instrumentation - Transformer isolation type	
Input	• mA, V • 2-Wire • T/C • CT, PT	• RTD • Potentiometer • Pulse
Output	DC SIGNAL (4-20mA, 1-5V) Max : 2ch	DC SIGNAL (4-20mA, 1-5V), RS-485 Max : 2ch
Power	DC 24V, AC 110V or AC 220V	DC 24V, AC 95~250V 50~60Hz
Accuracy	± 0.1% / Full scale	± 0.2% / Full scale, ± 1 Digit (25°C ±5°C)
Display	None	-999~9999
Response time	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)
Front adjustment	Zero and Span ± 5%	-
Weight	About 400g	About 400g
Mounting	DIN Rail mounting	DIN Rail mounting
Dimensions(mm)	W50 * H85 * D122/133 (8PIN / 11PIN)	W50 * H85 * D133
Certificate	CE, EM	-

Wall-Mounting Type

Model	SSN-Series	SPN-Series
		
Function	• Transmit DC signal in isolated condition. - Isolation between control room and filed instrumentation - Transformer isolation type	
Input	• mA, V (SSN-ISO,DSC) • RTD (SSN-RTD) • CT, PT (SSN-ACC, AVC)	• 2-WIRE (SSN-IPS) • Potentiometer (SSN-PMC)
Output	DC SIGNAL (4-20mA, 1-5V) Max : 2ch	DC SIGNAL (4-20mA, 1-5V) Max : 4ch
Power	AC 100V or AC 220V 50~60Hz	AC 110V or AC 220V 50~60Hz
Accuracy	± 0.1% / Full scale	± 0.1% / Full scale
Display	None	None
Response time	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)
Front adjustment	Zero and Span ± 5%	Zero and Span ± 5%
Weight	About 400g	About 800g
Mounting	Wall mounting	Wall mounting
Dimensions(mm)	W40 * H129 * D138	W81 * H129 * D138

LCD Type / Slim Type

Model	SD-100	P-Unit	TIDC
			
Function	• LCD Display type • Compact size, 4 Digit • High efficiency and accuracy by using 16 Bit AD converter • Transformer isolation type	• Slim wide 18mm • 1 or 2 output are available from 1 input • Transformer isolation type	• Dual input function • Compare 2 inputs to output signals • Scaling function : Set up display & isolation output • Intrinsic safety product • Safe at explosion area
Input	• DC signal (4-20mA, 1-5V) • T/C (K, E, J, N, R, S type) • RTD (PT 100Ω, JPT 100Ω) • Alarm setter • Potentiometer	• DC signal (4-20mA, 1-5V) • T/C (K, E, J, N, R, S type) • RTD (PT 100Ω, JPT 100Ω) • Potentiometer	• Multi input :TC, RTD, mA, mV, V Type
Output	4-20mA, 1-5V / RS-485, Modbus	4-20mA, 1-5V	4-20mA
Power	DC 24V, AC 95~250V 50~60Hz	DC 24V, AC 95~250V 50~60Hz	DC 24V
Accuracy	± 0.1% / Full scale	± 0.1% / Full scale	± 0.1% Full Scale, ±1 Digit
Display	-999~9999	None	Sensor Type(TC, RTD, mV, mA, V) Input Channel (A, B Input Channel) DeviceNet Address (Use 0~63 Address) Use -999 ~ 9999 LCD (Use Font)
Response time	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)
Front adjustment	-	Zero and Span ± 5%	-
Weight	350g	200g	250g
Mounting	DIN Rail mounting	DIN Rail mounting / Wall mounting	DIN rail mounting
Dimensions(mm)	W34 * H105 * D100	W18 * H100 * D112	W23 * H94 * D115
Certificate	CE	-	CE

Alarm Setter

Model	SHN-600 Series	SPN-HLS
		
Function	• Alarm setter • 2 Alarm or 4 Alarm • Easy to set by using the front keypad • Display function of scale range and alarm setting	• Contains overvoltage protection circuit • FND display • Various alarm applications. • High density mounting
Input	Multi input (mA, V, T/C, PT 100Ω, JPT 100Ω)	mV, mA, V, Ω
Output	H/L, HH/H/L/LL	1~5V, 4-20mA, H/L, HH/H/L/LL
Power	DC 24V, AC 95~250V 50~60Hz	AC 110V or AC 220V
Accuracy	± 0.2% / Full scale, ±1 Digit (25°C ±5°C)	± 0.15% (Max)
Display	-999~9999	-999~9999
Response time	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)
Front adjustment	-	Zero and Span ± 5%
Weight	400g	1000g
Mounting	DIN Rail mounting	Wall mounting
Dimensions(mm)	W50 * H85 * D133	W65 * H129 * D138

Calibrator / 8-CH Current Loop Type

Model	SHN-CAL	SHN-8PDB
		
Function	• Constant current generator of 4-20mA of designed simulation. Apply AC adaptor and internal battery. • Handy type, source and 2-wire calibrator.	• Receive an external power from power regulator and distribute to 8 channel transmitter and then makes 8 2-wire transmitter loops.
Input	• Vdc Measure : 0-70V DC • mA Measure : 0-45mA • mA Measure while 24Vdc : 0-45mA	• 4-20mA / 4-20mA(DC 24V)
Output	4-20mA / 2-wire / DC 24V source	4~20mA / 1~5V
Power	Li-polymer rechargeable battery, 5V adapter	DC 24V
Accuracy	± 0.05% Full Scale, ± 1 Digit (25℃ ± 5℃)	-
Display	3 1/2 digits (LCD) 0~100%, 4-20mA	None
Response time	≤ 0.5sec (0~90%)	≤ 0.5sec (0~90%)
Front adjustment	None	None
Weight	350g	400g
Mounting	Handy type	Surface
Dimensions(mm)	W65 * H120 * D140	W280 * H60 * D24



Mosaic Type / Panel Type / Compact Type

Model	SHN-1100	SHN-3110	SMI-3000 Series
  			
Function	• Graphic indicator • Easy installation with miniaturized size and light weight - Display range selection function - Easy to read with high bright red FND	• SHN-3110 accepts DC signal and indicates momentary measuring values proportional to input values - Display range selection function - Easy to read with high bright red FND	• Easy to read with high bright red FND • Compact type
Input	1-5V / 4-20mA / RS-485	1-5V / 4-20mA / RS-485	Universal input (mA, mV, V, PT 100Ω, T/C)
Output	None	None	2 Alarm
Power	DC 24V	AC 110V or AC 220V	DC 24V, AC 110V or AC 220V
Accuracy	± 0.1% / Full scale	± 0.15% / Full scale	± 0.1% / Full scale
Display	-999~9999 (4Digit)	-9999~9999 (4Digit)	-9999~9999 (4Digit)
Weight	About 220g	About 400g	About 400g
Mounting	Panel mounting (Graphic panel)	Panel mounting	Panel Mounting
Dimensions(mm)	W75 * H25 * D108	W40 * H129 * D138	W72 * H36 * D100

Multi Input Program Type / Two Color Indicator

Model	PRI-3000 Series	SMU-3000 Series	PRI-5000 Series
  			
Function	• High efficiency and accuracy by using 16 Bit AD converter • Relay alarm output selectable and dead band function • Contain burnout function that give high output and display waring message.	• Burnout function on sensor disconnection • Set point initialization • Sensor calibration functionalities • Limit function : maximum, minimum limiting facility	• Relay alarm output selectable • High efficiency and accuracy by using 16 Bit AD converter • Transformer isolation type • Alarm dead band function • Isolated current output
Input	• Universal input (mA, mV, V, PT 100Ω, T/C)	• DC (mV, V(High/Low), mA, 2-Wire • RTD (PT 50/100Ω, JPT 100Ω, CU 100Ω) • TC (B,C,E,J,K,L,N,P,R,S,T,U)	• Universal input (mA, mV, V, PT 100Ω, T/C)
Output	4-20mA / 2 Alarm / 4 Alarm / RS-485 / Modbus	4-20mA / 2 Alarm / 4 Alarm / RS-485 / Modbus	4-20mA / 2 Alarm / 4 Alarm / RS-485 / Modbus
Power	DC 24V, AC 110V or AC 220V	AC 95-250V 50-60Hz	AC 95~250V 50~60Hz
Accuracy	±0.2% / Full scale	±0.15% / Full scale	±0.15% / Full scale
Display	-9999~9999 (4Digit)	-9999~9999 (4Digit)	-9999~9999 (4Digit)
Weight	400g	About 400g	About 400g
Mounting	Panel mounting	Panel mounting	Panel mounting
Dimensions(mm)	W96 * H48 * D112	W96 * H48 * D92	W96 * H48 * D92
Certificate	CE	-	-

Auto & Manual Station / Bar-Graphic Type

Model	AM-4000	SB-6000 Series
		
Function	• Analog backup station • Indicating PV / MV • Selectable • Manual auto controller	• Wide angle view • Self-diagnosis error message display • 2 or 4 point alarm (HH/H/L/LL) • Alarm dead band function
Input	4-20mA, 1-5V, 2-Wire	Universal input (mA, mV, V, PT 100Ω, T/C)
Output	4-20mA	4-20mA / 2 Alarm
Power	AC 110V or AC 220V	AC 95~250V 50~60Hz
Accuracy	± 0.15% / Full scale	± 0.15% / Full scale
Display	-999~9999 (4Digit)	-999~9999 (4Digit)
Weight	About 400g	About 400g
Mounting	Panel Mounting	Panel Mounting
Dimensions(mm)	W96 * H48 * D112	W36 * H144 * D169.5

Rpm Indicator / Large Size Display Type

Model	SHN-2200	SHN-3700 / 3800
		
Function	• Depending on the input, the user can set the pulse per display rotation at random.	• Wide angle view • Self-diagnosis error message display • 2 or 4 point alarm (HH/H/L/LL) • Alarm dead band function
Input	NPN open collector	Universal input (mA, mV, V, PT 100Ω, T/C)
Output	4-20mA, 1-5V	4-20mA / 2 Alarm / RS-485 (Modbus)
Power	AC 110V or AC 220V	AC 95~250V 50~60Hz
Accuracy	± 0.15% Full scale, ±1 Digit (25°C ±5°C)	Display : ± 0.25% Analogue output : ± 0.2%
Display	0~99999, 7 Segment 5Digit	-999~9999
Weight	400g	1.5kg / 2.0kg
Mounting	Panel Mounting	Panel Mounting (3700) Wall mounting (3700, 3800)
Dimensions(mm)	W96 * H48 * D112	W245 * H100 * D151 W350 * H250 * D92

SURGE PROTECT DEVICE

Surge Protective Devices are designed to protect against transient surge conditions. Large single surge events, such as lightning, can reach hundreds of thousands of volts and can cause immediate or intermittent equipment failure. However, lightning and utility power anomalies only account for 20% of transient surges. The remaining 80% of surge activity is produced internally. Although these surges may be smaller in magnitude, they occur more frequently and with continuous exposure can degrade sensitive electronic equipment within the facility.

Signal Lines Type

Model	SHN-ARR30/-1 Series	SHN-ARR30-1R Series
		
Input	DC signal (4-20mA, DC 24V)	DC signal (4-20mA, DC 24V)
Discharge current MODE / LINE (8x20μs)	3kA / 6kA 10kA / 20kA	3kA / 6kA 10kA / 20kA
Dimensions(mm)	W23.5 * H102 * D62	W23.5 * H90 * D62
Mounting	Wall mounting	DIN Rail mounting
Certificate	S, CE	CE

Model	SSP-25/40 Series	SSP10R/20R/40R Series
		
Input	DC signal (4-20mA, DC 24V)	DC signal (4-20mA, DC 24V)
Discharge current MODE / LINE (8x20μs)	40kA / 80kA	10kA / 20kA 20kA / 40kA 40kA / 80kA
Dimensions(mm)	W63 * H131 * D37	W33 * H106 * D94
Mounting	Wall mounting	DIN Rail mounting

Telecommunication Lines Type

Model	SHN-TMR/-1 Series	SHN-TMR-1R Series
		
Input	Telemetry data (Moderm, RS-232 / 485 / 422)	Telemetry data (Moderm, RS-232 / 485 / 422)
Discharge current MODE / LINE (8x20µs)	3kA / 6kA 10kA / 20kA	10kA / 20kA
Dimensions(mm)	W23.5 * H102 * D62	W23.5 * H90 * D62
Mounting	Wall mounting	DIN Rail mounting
Certificate	S, CE	CE

Model	TSP10/TSP20 Series	TSP10/20/40-R Series
		
Input	Telemetry data (Moderm, RS-232 / 485 / 422)	Telemetry data (Moderm, RS-232 / 485 / 422)
Discharge current MODE / LINE (8x20µs)	10kA / 20kA 20kA / 40kA	10kA / 20kA 20kA / 40kA 40kA / 80kA
Dimensions(mm)	W63 * H131 * D37	W33 * H106 * D94
Mounting	Wall mounting	DIN Rail mounting

Telecommunication Lines Type /
Ac Power Lines Type (Parallel Type)

Model	TMR-CCTV	TMR-RJ45
		
Input	CCTV	LAN
Discharge current MODE / LINE (8x20µs)	10kA / 20kA	10kA / 20kA
Dimensions(mm)	W74 * H28 * D28	W34 * H105 * D41
Mounting	Wall mounting	DIN Rail mounting

Model	PSP-C Series (2P2W)	PSP-C Series(3P4W)
		
Input	AC Signal (AC 110V, 220V)	AC Signal (AC 380V)
Discharge current MODE / Phase (8x20µs)	40kA / 80kA 80kA / 160kA 120kA / 240kA	40kA / 80kA 80kA / 160kA 120kA / 240kA
Dimensions(mm)	W95 * H170 * D65	W168 * H178 * D63
Mounting	Wall mounting	Wall mounting
Certificate	CE	CE

AC Power Lines Type (Parallel Type)

Model	PSP-RP Series	PSP Series (2P 2W/3P 4W)	SP-40-PP22-R
			
Input	AC Signal (AC 110V, 220V)	AC Signal (AC 110V, 220V)	AC Signal (AC 220V)
Discharge current MODE / Phase (8x20µs)	25kA / 50kA 40kA / 80kA 50kA / 100kA	40kA / 80kA 80kA / 160kA 120kA / 240kA	20kA / 40kA
Dimensions(mm)	W33 * H106 * D94	W190 * H170 * D65	W36.9 * H90.5 * H64.8
Mounting	DIN Rail mounting	Wall mounting	DIN Rail mounting
Certificate	S, CE	CE	KS

AC Power Lines Type (Series Type) / Other

Model	SHN-PRR Series	SHN-PRR-1R Series
		
Input	AC Power (AC 110V / AC 220V)	AC Power (AC 110V / AC 220V)
Discharge current MODE / Phase (8x20µs)	3kA / 6kA 10kA / 20kA	10kA / 20kA
Dimensions(mm)	W74 * H28 * D28	W34 * H105 * D41
Mounting	Wall mounting	DIN Rail mounting
Certificate	S, CE	CE

Model	PSP-RS Series	SHN-Series
		
Input	AC Power (AC 110V / AC 220V)	AC Power (AC 110V / AC 220V)
Discharge current MODE / Phase (8x20µs)	25kA / 50kA	3kA / 6kA 10kA / 20kA
Dimensions(mm)	W33 * H106 * D94	W23.5 * H102 * D62
Mounting	DIN Rail mounting	Wall mounting
Certificate	CE	CE

TOTALIZER / TRANSMITTERS

A Totalizer is a device that counts the number of objects or the number of operations. It is called a Counter because it counts the number of ON/OFF signals input from an input device, such as a switch or sensor. It is fairly simple for people to count ten or twenty objects, but larger numbers make counting increasingly difficult. Counters outperform people when it comes to counting accurately.

TOTAL COUNTER

Model	SHN-1200	SHN-2000
		
Function	• Graphic indicator, Easy installation with miniaturized size and light weight. • Memory function of counted value once power failure.	• Accept pulse & totalize the input values in isolated condition. • Easy to read with high bright red FND.
Input	• Open collector • Voltage pulse • Dry contact	• Open collector • Voltage pulse • Dry contact
Output	None	O.C (Option)
Power	DC 24V	AC 95-250V
Accuracy	500mV (p-p) ~ 50V (p-p)	500mV (p-p) ~ 50V (p-p)
Display	7 Segment & 6 Digit	7 Segment & 6 Digit
Insulation resistance	Greater than 100MQ with DC 500V	Greater than 100MQ with DC 500V
Frequency range	2KHz (Max)	2KHz (Max)
Weight	220g	450g
Mounting	Panel mounting	Panel mounting
Dimensions(mm)	W75 * H25 * D108	W96 * H48 * D112

Totalizer / Large Counter

Model	SHN-2700/2800	SHN-2900
		
Function	• Measure wide range of flow application - Analog output - Total, rate display	• Pulse and totalize the input values in isolated condition. • Contains back up function and memorize the indication values of power failure before state.
Input	• Open collector • Voltage pulse • Dry contact • 4-20mA, 2-wire, 1-5V	• Open collector • Voltage pulse • Dry contact
Output	4-20mA / Pulse RS-485 / Alarm	Pulse (O.C)
Power	AC 110V or AC 220V	AC 95~250V 50~60Hz
Pulse amplitude	500mV(p-p) ~ 50V(p-p)	500mV(p-p) ~ 50V(p-p)
Display	7 Segment & 6 Digit	7 Segment & 6 Digit
Insulation resistance	Greater than 100MΩ with DC 500V	Greater than 100MΩ with DC 500V
Frequency range	2KHz (Max)	2KHz (Max)
Weight	450g	1.5kg
Mounting	Panel mounting	Panel mounting
Dimensions(mm)	W96 * H48 * D112	W240 * H96 * D151
Certificate	CE (SHN-2700)	-

Head-mounting Type Transmitter

Model	SHT-50	SHT-100
		
Function	Accepts direct input from an RTD and provides a standard 4-20mA DC signal.	2-wire transmitter for resistance thermometer of thermocouple.
Input	RTD , TC, POTENTIOMETER, PULSE	T/C (K, E, J, T, R, B, N, S)
Output	2-Wire 4-20mA	2-Wire (4-20mA)
Power	Loop power DC 16~36V	DC 12~35V
Accuracy	± 0.3% / Full scale	≤ 0.1% / Full scale
Display	None	None
Response time	≤ 0.5sec (0~90%)	≤ 1sec (0~90%)
Front adjustment	Zero and Span ± 5%	-
Weight	About 40g	About 40g
Mounting	Sensor head mounting	Sensor head mounting
Dimensions(mm)	54 ϕ * 24	44 ϕ * 21

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