



14 Years of Solid Experience,
Efficiency and Accuracy in
Measuring Instruments

Measurement
& Control

Level Temperature Pressure Flow



Our Company

ShineStates Intelligent Tech. (Shanghai) Co., Ltd. member of CSI Industries Energy Group is a professional engineering company for the development of products for measurement and control processes, it's a enterprise that integrates Research & Development, manufacturing, sales and after-sales service.

It has developed various testing equipment, combined with years of production experience and modern production processes, and through technological innovation, has developed many new products suitable for modern process control and various environmental conditions.

With the success of our research and design, we have managed to develop process sensors for the hygiene industry, as well as the brewery, dairy, beverage and pharmaceutical industries. In addition, our company can also customize non-standard special products to meet the needs to the greatest extent possible.



+86- 13710161874 Level Pressure Temperature Flow

Certificates

Quality Certificates

- CE-PED
- CE-HKQC
- ISO 9001
- IAF-ISO 14001

Products Certificates

- SGS Verification Compliance
- IQNET
- HNIM Calibration Certificate



Our Clients



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Level Pressure Temperature Flow

1. Solid/liquid level instrument



HHLT Heavy Hammer level transmitter

- Features: it measures powdery, granular and bulk materials
- Power supply: AC 110V 50Hz or 220V 50Hz or 380VAC 50Hz three options
- Measuring range: 2m ~ 70m
- Measurement accuracy: $\pm 1\text{dm}$ or $\pm 1\text{cm}$
- Process temperature: $-20 \sim +170^\circ\text{C}$
- Output: 4-20mA analog signal output and passive contact 5A 250VAC $\times 3$



MSLT Magnetostrictive level transmitter

- Features: high precision, good repeatability
- Power supply: $+24\text{VDC} \pm 10\%$
- Measuring range: 150mm ~ 1000mm
- Output resolution: 0.01%F.S. ($\pm 1\text{mm}$)
- Process temperature: $-40 \sim +200^\circ\text{C}$
- Wetted material: SUS304/SUS316L/PVDF, etc.
- Output: 0-5VDC/4-20mA/HART/Modbus/RS485, etc



MFIG Bypass level gauge

- Features: local display, can output analog and Switching value, bypass installation
- Power supply: $+24\text{VDC} \pm 10\%$
- Measuring range: 150mm~5800mm (flange center distance)
- Measurement accuracy: $\pm 10\text{mm}$
- Medium temperature: $-40 \sim +350^\circ\text{C}$
- Wetted material: SUS304/SUS316/SUS316L
- Output: optional 4-20mA, SPDT



MFIG Bypass level gauge

- Features: Non-contact electromagnetic wave measurement
- Power supply: two/four wires 18~36VDC
- Measuring range: up to 60m
- Measurement accuracy: $\pm 5\text{mm}$
- Process temperature: $-40 \sim +200^\circ\text{C}$
- Horn material: SUS316L
- Output: 4-20mA/HART
- Process connection: DN150 PN1.0 (customizable)



MFLS Magnetic float level transmitter

- Features: Simple structure, highly convenient
- Power supply: two wires 16~36VDC
- Measuring range: 0mm ~ 6000mm
- Measurement accuracy: $\pm 10\text{mm}$
- Process temperature: $-40 \sim +120^\circ\text{C}$
- Wetted material: SUS304/SUS316/SUS316L
- Output: two-wire 4-20mA/three-wire 0-5VDC or three-wire 0-10VDC



USLT Ultrasonic level transmitter

- Features: Non-contact mechanical wave measurement
- Power supply: $+24\text{VDC} \pm 10\%$
- Measuring range: 200mm ~ 4000mm
- Output resolution: 0.03%F.S.
- Process temperature: $-40 \sim +75^\circ\text{C}$
- Transmitter material: PTFE/PVC
- Output: DC (4-20) mA
- Process connection: G 2"
- Cable entry: M20 $\times 1.5$



2. Pressure instrument



PT131 Compact pressure transmitter

- Features: small, food-grade hygienic
- Power supply: 12~30VDC
- Measuring range: 0~0.7Bar ~ 100Bar
- Measurement accuracy: 0.25%F.S./0.5%F.S.
- Process temperature: -25 ~ +85°C
- Wetted material: SUS304/SUS316
- Output: 4-20mA/0-5VDC/1-5VDC/0-10VDC can be agreed
- Process conn.: 1.5" sanitary chuck



PT2088 Standard pressure transmitter

- Features: with display, suitable for industrial wastewater
- Power supply: 16~30VDC
- Measuring range: 0~0.05Bar ~ 20Bar
- Measurement accuracy: 0.25%F.S./0.5%F.S.
- Process temperature: -25 ~ +85°C
- Wetted material: SUS304/SUS316
- Output: 4-20mA/1-5VDC/HART/Modbus RS485, etc.



DPT3051 Differential pressure transmitter

- Features: Differential Pressure
- Power supply: 12~30VDC
- Measuring range: 0~0.05MPa~25MPa
- Measurement accuracy: 0.075%F.S./0.25%F.S.
- Process temperature: -25 ~ +85°C
- Wetted material: SUS304/SUS316/Hastelloy
- Output: 4-20mA/1-5VDC/HART/Modbus RS485, etc.



SPLT Submersible pressure level transmitter

- Features: For measuring clogging medium
- Power supply: 16~30VDC
- Measuring range: 0~0.05Bar ~ 20Bar
- Measurement accuracy: 0.25%F.S.
- Process temperature: -10 ~ +70°C
- Wetted material: SUS304/SUS316/PTFE spraying
- Output: 4-20mA/1-5VDC/HART/Modbus RS485, etc.

3. Temperature instrument



TS Temperature sensor

- Special feature: hygienic compact design
- Measuring element: Pt100/Pt1000
- Measuring range: -40 ~ +200°C
- Measurement accuracy:
Class A $\pm(0.15+0.002|t|)$
Class B $\pm(0.30+0.005|t|)$
- Wetted material: SUS316L
- Probe length: 10-1000mm
- Output: 4-20mA or Pt100/Pt1000
- Process conn.: 1.5" sanitary chuck



TT Temperature transmitter

- Features: hygienic, with on-site display
- Measuring element: Pt100/Pt1000
- Measuring range: -40 ~ +200°C
- Measurement accuracy:
Class A $\pm(0.15+0.002|t|)$
Class B $\pm(0.30+0.005|t|)$
- Wetted material: SUS316L
- Probe length: 10-1000mm
- Output: 4-20mA or Pt100/Pt1000
- Process conn.: 1.5" sanitary chuck



4. Flow instrument



EMFT Electromagnetic flow meter

- Features: Measure the volume flow of conductive liquids
- Power supply: 220VAC $\pm$ 20% 50Hz
- Velocity range: 0.3 ~ 12m/s
- Accuracy: $\pm$ 0.5% F.S.
- Process temperature: -25 ~ +180°C
- Electrode material: stainless steel/Hastelloy/tantalum/titanium
- Output: standard frequency pulse, optional 4-20mA/HART/Modbus RS485



VOFT Vortex flow meter

- Features: Small pressure loss, large measuring range
- Power supply: 24VDC (or 12VDC), lithium battery
- Velocity range:
Gas: 7m/s~40m/s
Liquid: 0.7m/s~7m/s
- Accuracy: Class 1.0 for liquids and Class 1.5 for gases
- Medium temperature: -40 ~ +250°C
- Body material: 304 stainless steel
- Output: 4-20mA/Modbus RS485, etc.



VAFT Variable area flow meter

- Features: short stroke, easy installation
- Power supply: standard 24VDC $\pm$ 20%
- Measuring range: water (20°C)
16~150000 l/h
- Accuracy: $\pm$ 2.5%F.S.
- Process temperature: -20 ~ +200°C
- Range ratio: 10:1
- Output: standard signal two-wire system
4 ~ 20mA (with HART communication)



TBFT Turbine flow meter

- Features: wide range
- External power supply: +24VDC $\pm$ 15%
- Range ratio: 1:10/1:15/1:20
- Accuracy: $\pm$ 1%R/ $\pm$ 0.5%R/can be customized
- Process temperature: -20 ~ +120°C
- Sensor material: SUS304/SUS316L
- Output: pulse signal/4-20mA
- Communication output: RS485 communication/HART protocol, etc.

5. Pneumatic

TMFT Thermal mass flow meter



- Special feature: hygienic compact design
- Measuring element: Pt100/Pt1000
- Measuring range: -40 ~ +200°C
- Measurement accuracy:
Class A $\pm$ (0.15+0.002|t|)
Class B $\pm$ (0.30+0.005|t|)
- Wetted material: SUS316L
- Probe length: 10-1000mm
- Output: 4-20mA or Pt100/Pt1000
- Process conn.: 1.5" sanitary chuck



AH-30 Pneumatic air hammer

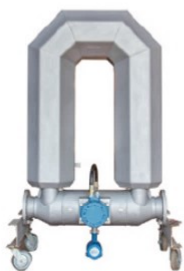
- Features: Use less air, good energy saving effect
- Process pressure: 3~5kg
- Impact force: 1.0kg.m/s
- Air consumption: 0.028L/time
- Dimensions: $\varnothing$ 70 $\times$ 110(H)
- Mounting hole center circle diameter: $\varnothing$ 55
- Mounting hole: 4 $\times$ $\varnothing$ 9
- Inlet port: 1/4 PT
- Air outlet port: 1/8 PT



6. Coriolis mass flow meter



CMFT Coriolis mass flow meter



Coriolis mass flow meter U type



Coriolis mass flow meter W type



Coriolis mass flow meter bend type



7. Water treatment analyzer

PM8200P Controller



- Measurement input: pH/ORP, Temperature
- Measuring range: pH -2.00...16.00pH Resolution 0.01pH
ORP -2000...2000mV Resolution 1mV
- Temperature 0-130°C Resolution 0.1°C
- Electrical connection: 90-260VAC, 50/60Hz; 24VDC(Optional)
- Contacts capacity: 5A/250VAC, 5A/30VDC
- Dimensions: 144×144×110mm



PM8200M Controller

- Measurement input: MLSS, Temperature
- Measuring range: 0-50.0g/L Resolution 0.01g/L
- Electrical connection: 90-260VAC, 50/60Hz; 24VDC(Optional)
- Contacts capacity: 5A/250VAC, 5A/30VDC
- Language: English
- Dimensions: 144×144×110mm
- Hole Size: 138×138mm

PM8200I Ion Selective Controller



- Measurement input: Ion selective, Temperature sensor
- Measuring range: (F-) 0-30000mg/L RES 0.1ppm
(Cl-) 0-30000mg/L RES 0.01mg/L
(NH3) 0-1000mg/L RES 0.01mg/L
(Ca2+) 0-40000mg/L RES 0.01mg/L
- Temperature 0-130°C RES 0.1°C
- Electrical connection: 90-260VAC, 50/60Hz; 24VDC(Optional)
- Dimensions: 144×144×110mm



PM8200CI Controller

- Measurement input: Cl2, ClO2, O3, Temperature
- Measuring range: Cl2 0-2.000/0-20.00ppm(mg/L)
ClO2 0-2.000/0-20.00ppm(mg/L)
O3 0-2.000/0-20.00ppm(mg/L)
- Electrical connection: 90-260VAC, 50/60Hz; 24VDC(Optional)
- Contacts capacity: 5A/250VAC, 5A/30VDC
- Dimensions: 144×144×110mm



Instrument application simulation diagram

MSLT: Magnetostrictive level transmitter

RLT: Radar level transmitter

USLT: Ultrasonic level transmitter

MFLT: Magnetic float level transmitter

HHLT: Heavy Hammer Level Transmitter

RPLS: Rotary paddle level switch

CPLS: Capacitance level switch

RFLS: RF admittance level switch

VFLS: Vibration fork level switch

VRLS: Vibration rod type level switch

MFLS: Magnetic float level switch

HFLS: Side mounted float level switch

MNLS: Mini float level switch

CBLS: Combined cable float level switch

TS/TT: Temperature sensor/ transmitter

PT131: Compact Pressure Transmitter

PT2088: Pressure transmitter

DPT3051: Differential pressure transmitter

SPLT: Submersible pressure level transmitter

EMFT: Electromagnetic flow meter

VOFT: Vortex flow meter

VAFT: Metal rotor flowmeter

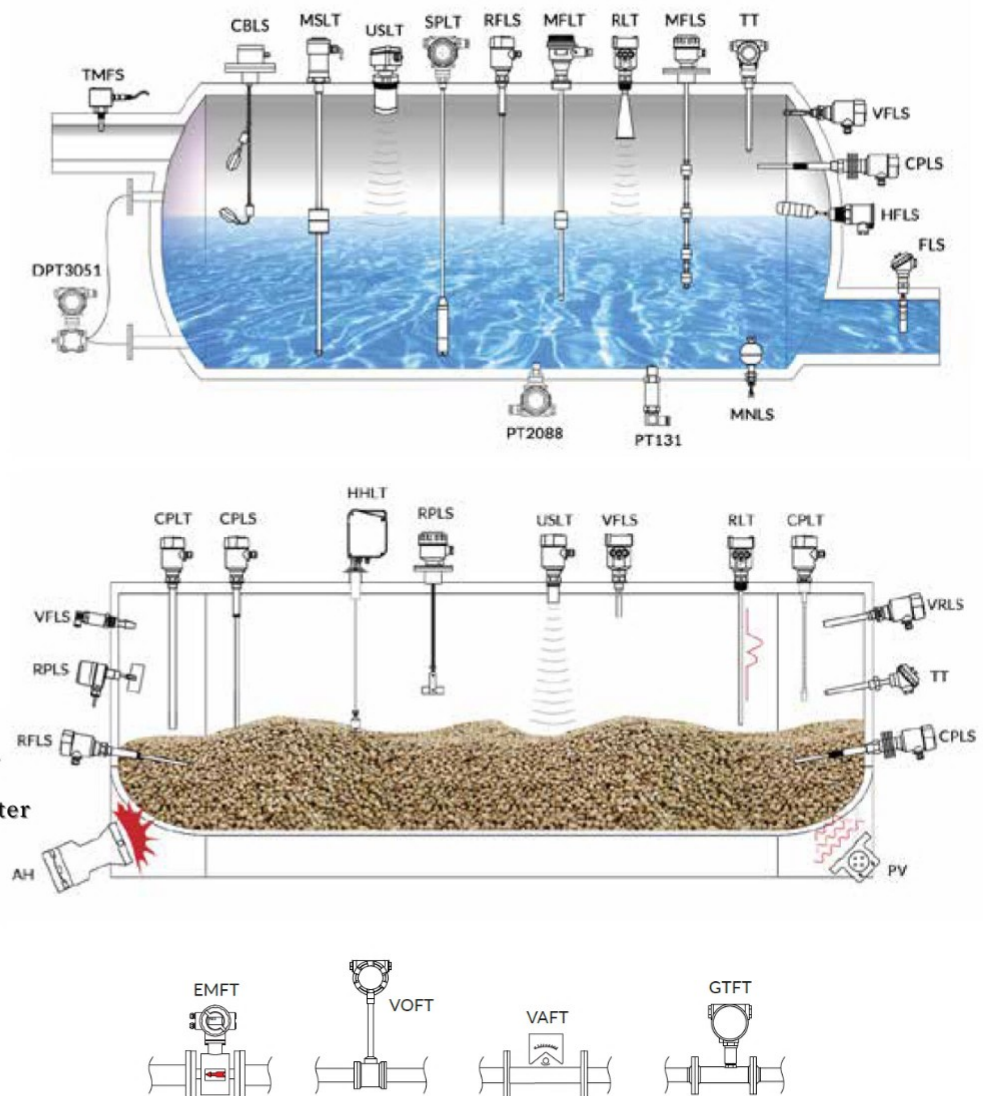
GTFT: Turbine flow meter

FLS: Mechanical flow meter

TMFS: Thermal flow switch

PV: Pneumatic Vibrator

AH: Air hammer



• ENGINEERING

Supported by a strong engineering team, ShineStates has invested 2D and 3D software (with Finite Element Analysis) for design and product development.



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Contact us



**Headquarters: Ho King
Commercial Centre, 16th
Floor, 2-16, Garden
Street, Mong Kok, Hong
Kong**



**Shanghai facilities: No.7, Lane 9299,
Tingwei Road, Jinshan District, Shanghai
City, China.**



 www.csiindustrieseg.com

 info@csiindustrieseg.com

 **CSI
INDUSTRIES**

Shine States a member of CSI Industries Energy Group Limited