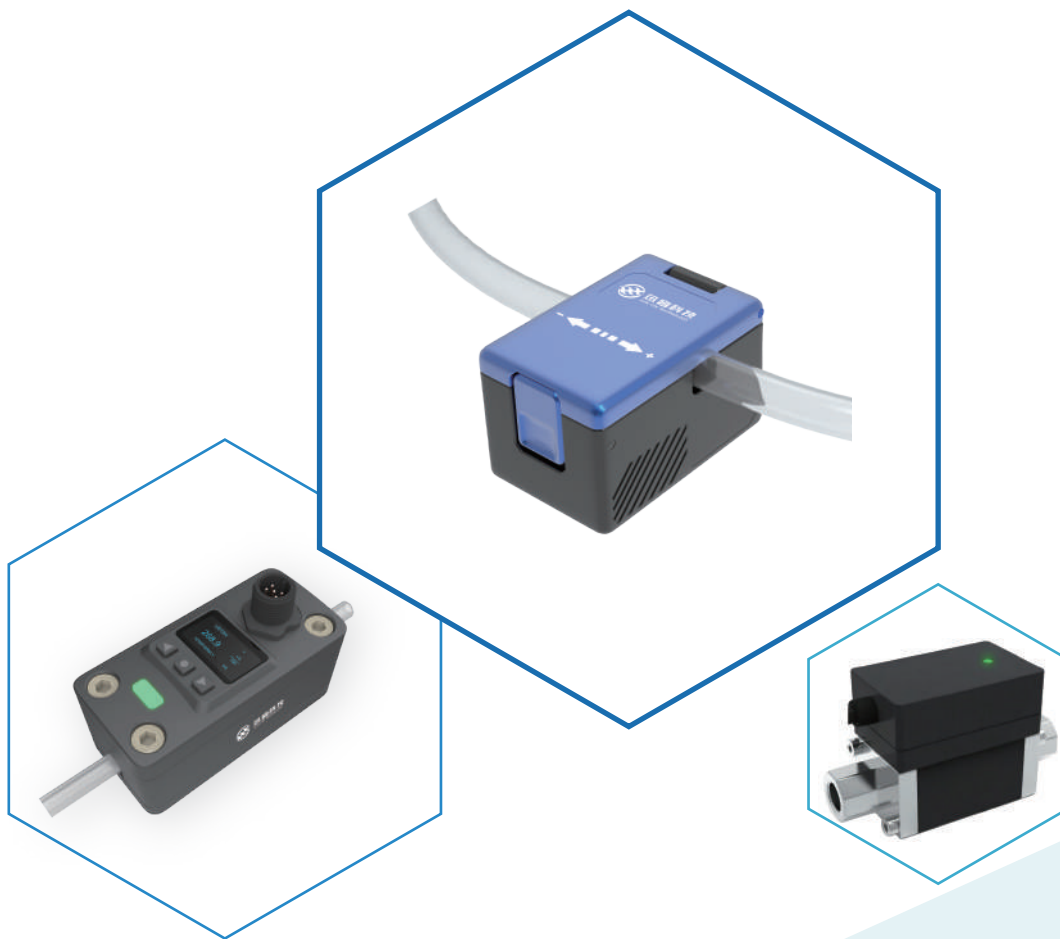


ULTRASONIC FLOW SENSORS



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ABOUT XY-TEK

XY-TEK is a high-tech company dedicated to the development, manufacturing, and sales of ultrasonic sensor products. We specialize in ultrasonic sensors for fluid measurement and control, especially for small tubing ($OD \leq 30\text{mm}$) and low flow rates.

XY-TEK ultrasonic flow sensors have been widely used in the research and production of various medical devices and biopharma devices, including VAD, ECMO, ablation devices, blood pumps, dialysis devices, TFF, bioreactors, aspect filling, Chromatography, etc.

Currently, XY-TEK has successfully collaborated with a lot of well-known medical device manufacturers, research labs, medical centers, biopharma device manufacturers, CDMOs, and innovative disruptors.

We invite you to share any unmet requirements in your application, we welcome challenges that drive innovation and improvement in our offerings.

Product Introduction

For new energy and industrial automation flow measurement scenarios, XY-TEK independently developed high-accuracy and high-stability clamp-on flow sensors and inline flow sensors. Effectively ensuring the safety and efficiency of the flow measurement process.

XY-TEK

PRODUCT OVERVIEW



CG Series Ultrasonic Flow Sensor



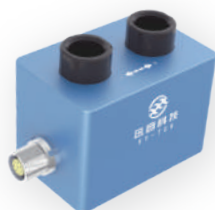
CM Series Ultrasonic Flow Sensor



CPD Series Ultrasonic Flow Sensor



CS Series Ultrasonic Flow Sensor



TGU Series Ultrasonic Flow Sensor



TH Series Ultrasonic Flow Sensor

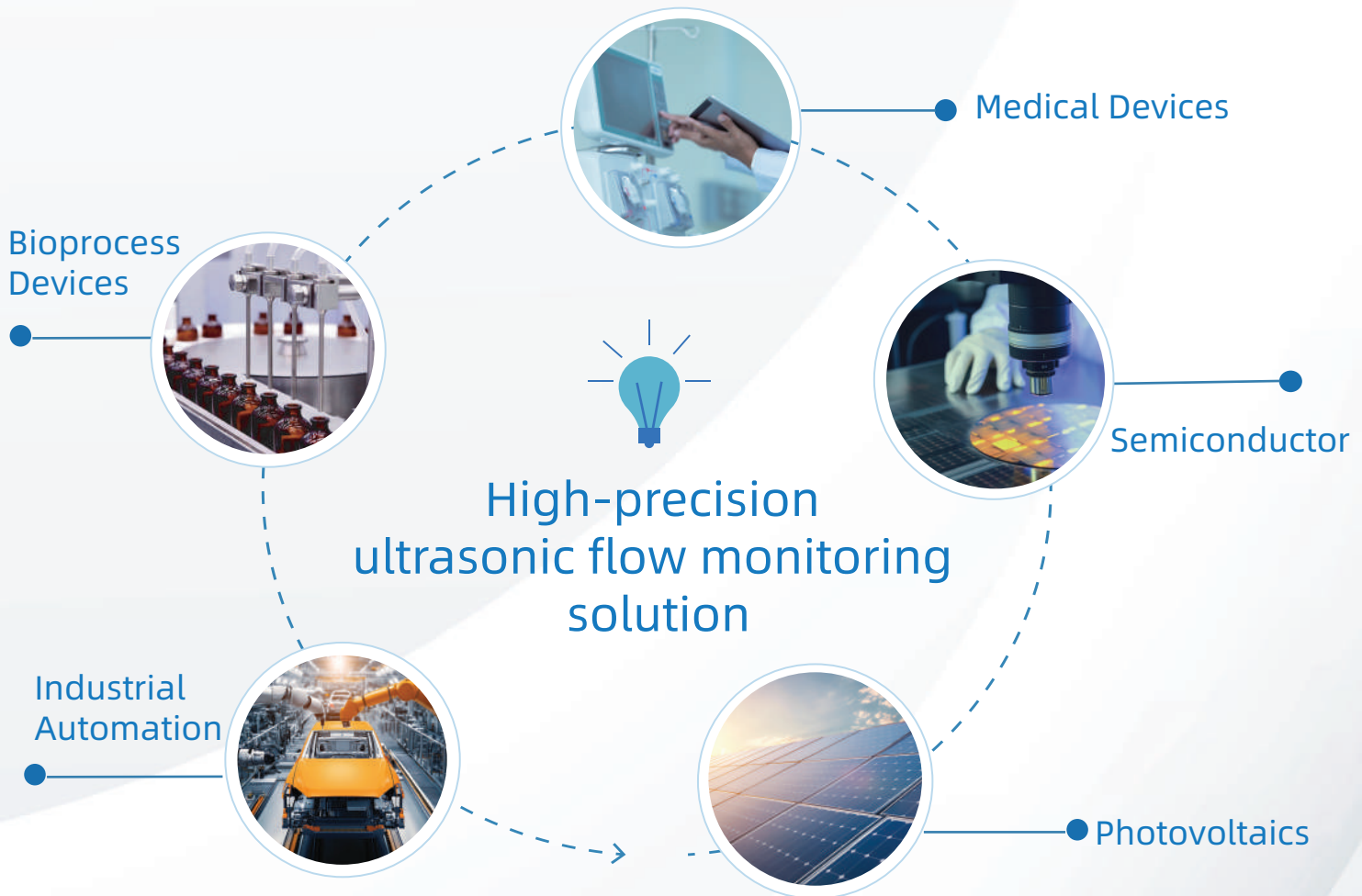


TPD Series Ultrasonic Flow Sensor



BG Series Bubble Detector

APPLICATION AREA



PRODUCT ADVANTAGES



Independent R&D



Direct from Manufacturer



Customizable Solutions



Professional After-Sales



Timely Delivery



Durable & Reliable

Applications

Biopharmaceutical and Medical Devices

- **Safety and Hygiene:** Clamp-on design prevents direct contact with liquids, avoiding cross-contamination.
- **Accurate Measurement:** High-precision liquid flow measurements, even in low-flow scenarios.
- **Multi-Function:** Can be configured as a flow switch, bubble detection, filling and dosing function, etc.
- **Convenient Installation:** Allows for efficient installation without downtime or cutting the tubing.



Technical Parameter

Measurement	Measures instantaneous flow & cumulative volume, with bidirectional capability
Accuracy	±3% RD(Reading) plus zero point drift *(water, 22°C ±3°C)
Measurable Liquids	Water, saline, blood, beverages, and other acoustically transparent liquids
Applicable Tubing	PVC, PTFE, PE, or other plastic tubing, silicone tubing
Compact Design	Sensor and circuit systems are integrated into one unit
Signal Output	RS485, pulse, current, voltage, and digital output options
Current Consumption	<20mA (no external load)
Operating Voltage	12VDC-30VDC
Liquid Temperature	0°C -60°C
Ambient Temperature	0°C -60°C
Storage Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications



Product Model	Flow Range	Outer Diameter		Inner Diameter	
CG016NS	0-2,000 mL/min	5/32"	4.0mm	1/16"	1.6mm
CG019NS	0-2,000 mL/min	3/16"	4.8mm	1/16"	1.6mm
CG025NS	0-3,000 mL/min	1/4"	6.4mm	1/8"	3.2mm
CG032NS	0-6,000 mL/min	5/16"	7.9mm	3/16"	4.8mm
CG038NS	0-8,000 mL/min	3/8"	9.5mm	1/4"	6.4mm
CG044NS	0-9,000 mL/min	7/16"	11.1mm	5/16"	7.9mm
CG050NS	0-10,000 mL/min	1/2"	12.7mm	3/8"	9.5mm
CG056NS	0-12,000 mL/min	9/16"	14.3mm	3/8"	9.5mm
CG063NS	0-14,000 mL/min	5/8"	15.9mm	3/8"	9.5mm
CG075NS	0-20,000 mL/min	3/4"	19.1mm	1/2"	12.7mm
CG100NS	0-50,000 mL/min	1"	25.4mm	3/4"	19.1mm
CG125NS	0-100,000 mL/min	1 1/4"	31.8mm	3/4"	19.1mm
CG138NS	0-100,000 mL/min	1 3/8"	35.0mm	7/8"	22.2mm

Applications

Medical Devices (For OEM)

- **Safety and Hygiene:** Clamp-on design prevents direct contact with liquids, avoiding cross-contamination.
- **Accurate Measurement:** High-precision liquid flow measurements, even in low-flow scenarios.
- **Compact Design:** With built-in circuitry, a compact size, and robust EMC protection, it is suitable for device integration.
- **Convenient Installation:** Allows for efficient installation without downtime or cutting the tubing.



Technical Parameter

Measurement	Measures instantaneous flow & cumulative volume, with bidirectional capability
Accuracy	±3% RD(Reading) plus zero point drift *(water, 22°C ±3°C)
Measurable Liquids	Water, saline, blood, beverages, and other acoustically transparent liquids
Applicable Tubing	PVC, TPU, or Silicone Flexible Hoses
Compact Design	Sensor and circuit systems are integrated into one unit
Signal Output	RS485
Current Consumption	<20mA (no external load)
Operating Voltage	12VDC-30VDC
Liquid Temperature	0°C -60°C
Ambient Temperature	0°C -60°C
Storage Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications



View the product homepage

Product Model	Flow Range	Outer Diameter		Inner Diameter	
CM016NS	0-2,000mL/min	5/32"	4.0mm	1/16"	1.6mm
CM019NS	0-4,000mL/min	3/16"	4.8mm	1/16"	1.6mm
CM025NS	0-6,000mL/min	1/4"	6.4mm	1/8"	3.2mm
CM038NS	0-8,000mL/min	3/8"	9.5mm	1/4"	6.4mm
CM056NS	0-12,000mL/min	9/16"	14.3mm	3/8"	9.5mm

Applications

New Energy / Semiconductor / Industrial Automation

- **Safety and Hygiene:** Clamp-on design prevents direct contact with liquids, avoiding cross-contamination.
- **Accurate Measurement:** Optimization in hardware and software for accurate flow measurements.
- **Compact Design:** Integrated & compact for easy multi-pipe installation
- **Convenient Installation:** Allows for efficient installation without downtime or cutting the tubing.



Technical Parameter

Measurement	Support instantaneous flow, cumulative volume, and bidirectional measurement
Accuracy	±2% RD *(water, 22°C ±3°C)
Repeatability	≤0.1% of F.S.
Measurable Liquids	Water, chemical liquids, cooling fluids, oil, beverages, and other acoustically transparent liquids
Applicable Tubing	PFA, PTFE, PP, PU plastic, or resin rigid tubing
Compact Design	Sensor, circuit system, and display are integrated into one unit
Signal Output	RS485, pulse, and current output options
Display	OLED 0.96"
Operating Voltage	12VDC-30VDC
Work Temperature	0°C -60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65
Current Consumption	1.Powered by 24V, with no external load, current consumption is <30mA 2.With external load, current consumption> 30mA, but must not exceed 100mA

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)



Product Model	Flow Range	Outer Diameter		Inner Diameter
CPD025NB	0-5,000mL/min	1/4"	6mm	3-5mm
CPD032NB	0-100000mL/min	5/16"	8mm	5-7mm
CPD038NB	0-15,000mL/min	3/8"	10mm	5-8mm
CPD050NB	0-30,000mL/min	1/2"	12mm	6-11mm
CPD063NB	0-40,000mL/min	5/8"	16mm	10-14mm
CPD075NB	0-50,000mL/min	3/4"	20mm	10-17mm
CPD100NB	0-80,000mL/min	1"	26mm	15-22mm
CPD125NB	0-100,000mL/min	1 1/4"	32mm	20-28mm

Applications

New Energy / Semiconductor / Industrial Automation

- **Safety and Hygiene:** Clamp-on design prevents direct contact with liquids, avoiding cross-contamination.
- **Accurate Measurement:** Maintains high-precision liquid flow measurement in low or dynamic flow scenarios.
- **Multi-Function:** Can be configured as a flow switch, bubble detection, filling and dosing function, etc.
- **Convenient Installation:** Allows for efficient installation without downtime or cutting the tubing



Technical Parameter

Measurement	Support instantaneous flow, cumulative volume and bidirectional measurement
Accuracy	±2% plus zero point drift *(water, 22°C ±3°C)
Repeatability	± 0.1% of F.S.
Measurable Liquids	Water, chemical liquids, cooling fluids, oil, beverages, and other acoustically transparent liquids
Applicable Tubing	PFA, PTFE, Teflon, PP, PVDF, PA etc., smooth inner and outer surfaces
Compact Design	Sensor, circuit system, and display are integrated into one unit
Digital Interface	RS485/ Modbus RTU
Sign Input	One digital (switch) signal
Signal Output	Pulse / One digital (switch) signal, current, voltage, frequency
Current Consumption	<20mA (no external load)
Operating Voltage	12VDC-30VDC
Work Temperature	0°C -60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)



Product Model	Flow Range	Outer Diameter		Inner Diameter
CS025NP	0-5,000mL/min	1/4"	6-7mm	3-5mm
CS038NP	0-15,000mL/min	3/8"	9-10mm	5-8mm
CS050NP	0-30,000mL/min	1/2"	12-13mm	6-11mm
CS075NP	0-50,000mL/min	3/4"	18.5-19.5mm	12-16mm
CS100NP	0-100,000mL/min	1"	25-26mm	15-20mm
CS125NP	0-200,000mL/min	1 1/4"	31-32mm	20-26mm
CS049MP	0-400,000mL/min	-	49mm	38-45mm

Applications

New Energy / Semiconductor / Industrial Automation

- **Bidirectional Measurement:** Capable of measuring flow in both directions and detecting air bubbles.
- **Unobstructed Flow:** No blockage, no turns, no dead corners and low fluid pressure loss.
- **Compact Design:** Circuit integrated inside the sensor, no external processing system required.
- **Easy Installation:** Supports multi-mode output for seamless connection to existing monitoring systems.



Technical Parameter

Measurement	Support instantaneous flow, cumulative volume and bidirectional measurement
Accuracy	±2% plus zero point drift *(water, 22°C ±3°C)
Repeatability	± 0.1% of F.S.
Measurable Liquids	Water, chemical solutions, oil, glue, grinding fluid, etc. (excluding solid large particles and bubbles)
Compact Design	Sensor, circuit system, and display are integrated into one unit
Digital Interface	RS485/ Modbus RTU
Current Consumption	1.Powered by 24V, the current consumption is <30mA with no external load 2.With an external load, current consumption is 230mA, but must not exceed 100mA
Operating Voltage	18VDC-30VDC
Sensor Housing	Stainless Steel / PPS Plastic
Liquid Temperature	0°C -70°C
Ambient Temperature	0°C - 60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)



Product Model	Flow Range	Process Connection
TAD020MA	0-100,000mL/min	Sanitary quick-clamp coupling (DN20, 50.5 clamp, Tri-Clamp 1.5")
TAD050MA	0-330,000mL/min	Sanitary quick-clamp coupling (DN50, 77.5 clamp, Tri-Clamp 3")

Applications

New Energy / Semiconductor / Industrial Automation

- **Unobstructed Flow:** The measurement tubing is free of obstructions, effectively reducing pressure loss and the risk of blockage.
- **Reliable and Durable:** Tubing is made from corrosion-resistant materials, suitable for complex environments.
- **Integrated Design:** Built-in display and circuit in a compact size for convenient operation.
- **Easy Integration:** Multi-mode output allows for quick integration into the monitoring system.



Technical Parameter

Measurement	Support instantaneous flow, cumulative volume and bidirectional measurement
Accuracy	±2% plus zero point drift *(water, 22°C ±3°C)
Repeatability	± 0.1% of F.S.
Measurable Liquids	Water, coolant, ethylene glycol, fluorinated liquid, oil, glue, etc.
Applicable Tubing	PFA, PTFE, Teflon, PP, PVDF, PA etc., smooth inner and outer surfaces
Compact Design	Sensor, circuit system, and display are integrated into one unit
Digital Interface	RS485/ Modbus RTU
Sign Input	One digital (switch) signal
Signal Output	Pulse / / Two digital (switch) signal,current output
Current Consumption	<30mA (24V power supply, no external load)
Operating Voltage	18VDC-30VDC
Work Temperature	0°C -60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)

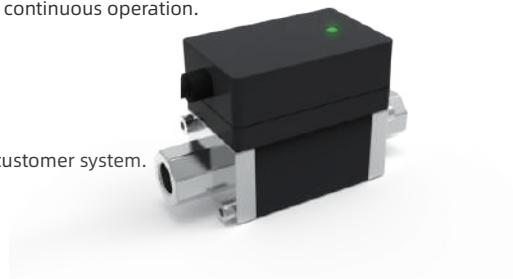


Product Model	Flow Range	Process Connection
TPD004M1	0-6,000mL/min	G 1/4"
TPD008M1	0-15,000mL/min	G 3/8"
TPD012M1	0-30,000mL/min	G 1/2"
TPD015M1	0-50,000mL/min	G 3/4"
TPD020M1	0-100,000mL/min	G 1"
TPD025M1	0-160,000mL/min	G 1"
TPD032M1	0-250,000mL/min	G 1 1/4"

Applications

New Energy / Semiconductor / Industrial Automation

- **Reliable and Stable:** Maintains stable and reliable measurement performance under long-term continuous operation.
- **Compact Design:** Circuit integrated inside the sensor, no external processing system required.
- **Unobstructed Flow:** No blockage, no turns, no dead corners and low fluid pressure loss.
- **Seamless Integration:** Provides a standard output method that seamlessly integrates with the customer system.



Technical Parameter

Measurement	Measures instantaneous flow & cumulative volume, with bidirectional capability
Accuracy	±2% plus zero point drift *(water, 22°C ±3°C)
Repeatability	≤0.1% of F.S.
Measurable Liquids	Water, chemical solutions, oil, glue, grinding fluid, etc.
Signal Output	RS485, pulse, and current output options
Sensor Housing	Plastic
Operating Voltage	18VDC-30VDC
Liquid Temperature	0°C -70°C
Ambient Temperature	0°C - 60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH
Protection Level	IP65
Current Consumption	1.Powered by 24V, the current consumption is <30mA with no external load 2.With an external load, current consumption is 230mA, but must not exceed 100mA

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)



Product Model	Flow Range	Process Connection
TPK04M	0-5,000mL/min	1/8" NPT , Internal Thread

Applications

Biopharmaceuticals / New Energy / Semiconductor

- **Accuracy Measurement:** Up to 0.1 mL/min, accurate measurement in low flow situations.
- **Unobstructed Flow:** Smooth, obstruction-free tubing reduces pressure loss and minimizes blockage risk.
- **Reliable and Durable:** Corrosion-resistant materials for reliable performance in demanding environments.
- **Easy Installation:** Supports multi-mode output for seamless connection to existing monitoring systems.



Technical Parameter

Measurement	Support instantaneous flow, cumulative volume and bidirectional measurement
Accuracy	±1% RD *(water, 22°C ±3°C)
Repeatability	≤0.1% of F.S.
Measurable Liquids	Water or similar liquids
Contact Material	PEEK (Fluid Channel)
Compact	Sensor, circuit system, and display are integrated into one unit
Signal Output	RS485, pulse, and current output options
Current Consumption	Powered by 24V
Operating Voltage	18VDC-30VDC
Liquid Temperature	0°C - 90°C
Ambient Temperature	0°C -60°C
Medium Temperature	-20°C -70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

[View the product homepage](#)



Product Model	Flow Range	Process Connection
TGU012NS	0-1,000 mL/min	1/8" NPT , Internal Thread
TGU016NS	0-2,000 mL/min	1/8" NPT , Internal Thread
TGU024NS	0-3,000 mL/min	1/8" NPT , Internal Thread

Applications

Measure Heart Valves and Hemodynamics Flow Rates

- **Fast Response:** The sensor has a quick response time, instantly capturing changes in pulsatile flow.
- **Unobstructed Flow:** The smooth, unobstructed tubing prevents bubble entrapment.
- **Accurate Measurement:** Accurate for low flow or high flow, steady flow, or pulsatile flow.
- **Intuitive and Easy to Read:** The large display presents flow data.



Technical Parameter

Measurable Liquids	Water, blood, buffer solutions, saline, glycerin, and other acoustically transparent liquids
Sensor Design	Sensor and circuit systems are separated
Compact Design	Sensor and circuit systems are integrated into one unit
Signal Output	Voltage output: $\pm 5V$
Contact Material	Ultem (Fluid Channel)
Display	LCD 7" Touch Screen
Current Consumption	$< 10W$
Work Temperature	$0^{\circ}C - 60^{\circ}C$
Liquid Temperature	$0^{\circ}C - 60^{\circ}C$
Work Humidity	10% - 90%RH (no condensation)
Operating Voltage	10 VAC - 230 VAC, 50/60Hz
Flow Measurement	Measures instantaneous flow & cumulative volume, with bidirectional capability
Measurement Accuracy	$\pm 3\%^{*}$ (water, $22^{\circ}C \pm 3^{\circ}C$)

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

View the product homepage



Product Model	Tubing Parameters				Calibration Range of In-line Sensors*			
	Tubing ID		Nozzle OD		Low Flow Range*		Standard Flow Range*	
	inch	mm	inch	mm	Linear Lower Limit*	Max Measurement Range*	Linear Lower Limit*	Max Measurement Range*
TH038N0	3/8	9.5	0.44	11.1	0.5L/min	-2.5 - 2.5 L/min	1L/min	-10 - 10 L/min
TH050N0	1/2	12.7	0.58	14.7	1.0L/min	-5.0 - 5.0 L/min	2L/min	-20 - 20 L/min
TH063N0	5/8	15.9	0.72	18.3	2.5L/min	-12.5 - 12.5 L/min	5L/min	-50 - 50 L/min
TH075N0	3/4	19.1	0.86	21.9	2.5L/min	-12.5 - 12.5 L/min	5L/min	-50 - 50 L/min
TH100N0	1	25.4	1.10	29.0	5.0L/min	-25.0 - 25.0 L/min	10L/min	-100 - 100 L/min

BG Series Bubble Detector

Bubble or Gas-Liquid Status Detection in Plastic Tubing

Applications

Biopharmaceuticals / Medical Devices / Industrial Automation

- **Safe and Hygienic:** Non-invasive measurement, no direct contact with the liquid, ensuring hygiene and safety.
- **Stable and Reliable:** High accuracy and high stability with dry coupling.
- **Accurate Measurement:** Detection accuracy is not affected by the tubing or the color of the liquid.
- **Real-Time Detection:** Equipped with LED indicators to reflect the status of the bubble sensor in real-time.



Technical Parameter

Measurable Liquids	Water, blood, buffer solutions, saline, glycerin, and other acoustically transparent liquids
Integrated Design	Sensor and circuit systems are integrated into one unit
Signal Output	TTL
Contact Matea	Uitem (Fluid Channel)
Current Consumption	< 50mA
Self-Diagnosis	Optional feature
Operating Voltage	5VDC - 30VDC
Work Temperature	0°C - 60°C
Medium Temperature	-20°C - 70°C
Work Humidity	30% - 90%RH (no condensation)
Protection Level	IP65
Bubble Detection	Identifying bubbles in liquids or gas-liquid status at specific locations in the tubing
Measurement Accuracy	Detection of bubbles with a diameter greater than 1/3 of the ID of the measuring tubing*
Repeatability Time	<1ms

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

View the product homepage



Product Model	Outer Diameter		Inner Diameter	
BG013N	1/8"	3.2mm	1/16"	1.6mm
BG016N	5/32"	4.0mm	1/16"	1.6mm
BG019N	3/16"	4.8mm	1/16"	1.6mm
BG025N	1/4"	6.4mm	1/8"	3.2mm
BG031N	5/16"	7.9mm	3/16"	4.8mm
BG038N	3/8"	9.5mm	1/4"	6.4mm
BG050N	1/2"	12.7mm	3/8"	9.5mm
BG056N	9/16"	14.3mm	3/8"	9.5mm
BG075N	3/4"	19.0mm	1/2"	12.7mm

Applications

Industrial Automation

- **Single-Point Level Switch:** Detects the Gas-Liquid State at Any Specified Location.
- **Safe and Hygienic:** Non-invasive measurement, no direct contact with the liquid, ensuring hygiene and safety.
- **Stable and Reliable:** High accuracy and high stability with dry coupling.
- **Accurate Measurement:** Detection accuracy is not affected by the tubing or the color of the liquid.
- **Real-Time Detection:** Equipped with LED indicators to reflect the status of the bubble sensor in real-time.

Technical Parameter

Measurable Liquids	Fruit juice, beverages, or other acoustically transparent liquids
Compact Design	Sensor and circuit systems are integrated into one unit
Signal Output	TTL
Current Consumption	< 20mA
Self-Diagnosis	Optional feature
Operating Voltage	5VDC - 30VDC
Work Temperature	0°C - 60°C
Medium Temperature	-20°C - 70°C
Work Humidity	10% - 90%RH (no condensation)
Protection Level	IP65
Bubble Detection	Identifying bubbles in liquids or gas-liquid status at specific locations in the tubing
Measurement Accuracy	Detection of bubbles with a diameter greater than 1/3 of the ID of the measuring tubing*
Repeatability Time	<1ms

*Note: For detailed measurement accuracy conditions, please refer to the product manual.

Product Specifications

Product Model	Outer Diameter	
LG025N	1/4"	1.6mm
LG038N	3/8"	1.6mm
LG050N	1/2"	1.6mm
LG075N	3/4"	3.2mm



Main Accessories

| Sensor Display

Display Method: OLED

Communication Protocol: RS485

- ✓ Check the traffic data
- ✓ Cumulative flow reset
- ✓ Sensor zero bias calibration



| Flow Viewer PC Software

The XY-TEK Flow Viewer PC software allows the flow measurement data to be visualized and saved. Some sensor settings and calibration parameters can be adjusted using the software as well.

Software Functions

- ✓ Monitor flow rate and total volume
- ✓ Save flow rate data
- ✓ Write, read, load and save sensor configurations
- ✓ Sensor zero calibration
- ✓ Sensor flow rate calibration
- ✓ Modify the sensor flow rate range parameters
- ✓ Modify sensor output mode and settings

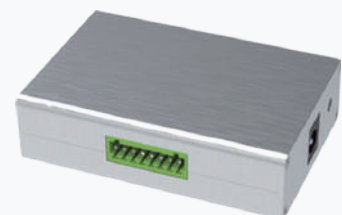


| USB Data Converter

Number of sensors can be connected: 1

Key Features:

1. Communication connection between the sensor and the computer
2. Provide power supply for the sensor
3. Information conversion between USB and RS485



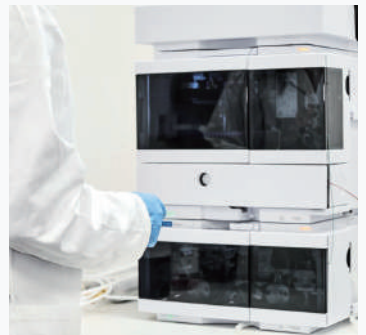
Medical Devices

- Heart-lung Machines (HLM)
- ECMO
- Extracorporeal Circulation/
- Cardiopulmonary Devices
- LVAD
- Blood Pumps / Heart Pump
- Organ Perfusion / Organ Preserve Devices
- Dialysis Devices
- Kidney Stone Treatment
- Endoscope
- Medical Device Cooling System
- Heart Valves Hemodynamic Research
- Cardiovascular Fluid Dynamic Research
- Ablation devices



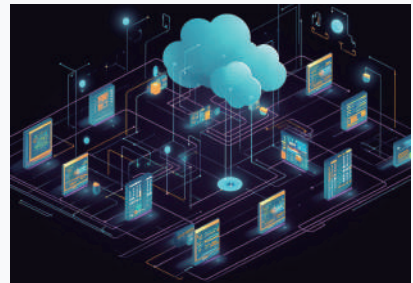
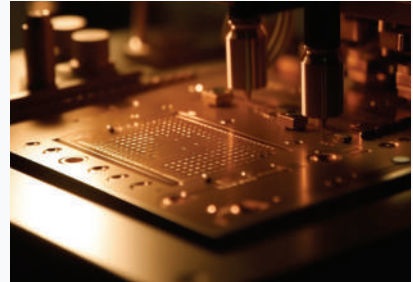
Bioprocess Devices

- Aseptic Filling
- Bioreactor
- Cell Inoculation
- Centrifuge
- HPLC / Chromatography
- Medium Preparation / Buffer Preparation
- Protein Purification
- TFF / Filtration
- Upstream Bioprocess
- Downstream Bioprocess



Semiconductor

- Chemical Supply/Delivery
- Chemical Mechanical Polishing
- Photolithography
- Photoresist Coating
- Slurry Mixing
- Wet Etching
- Wafer/Mask Cleaning
- Electroplating
- CMP Slurry Transport
- Cooling Systems



Photovoltaics

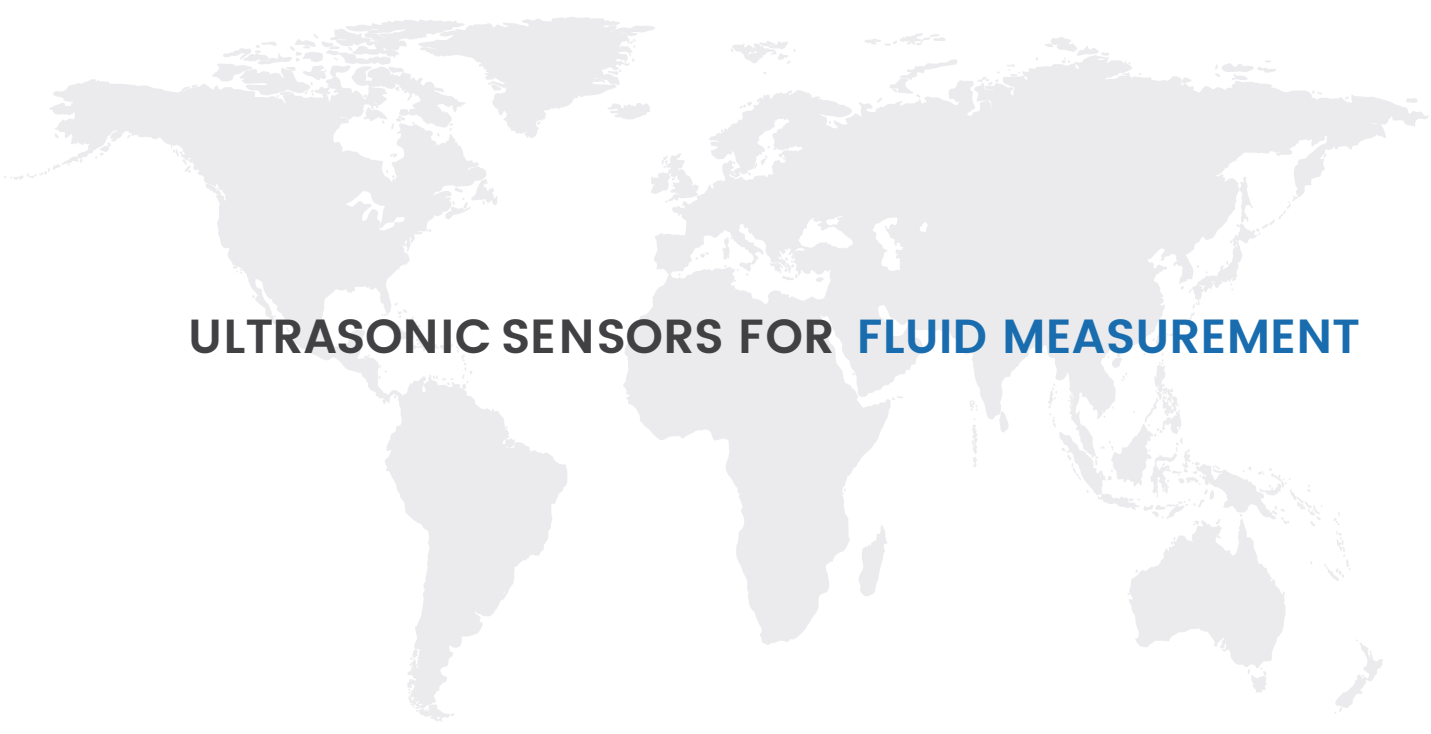
- Chemical Supply/Delivery
- Surface Texturing
- Acid Cleaning
- Plasma Etching
- CMP Slurry Transport
- Thermal Cycling System
- Cooling Systems



Industrial Automation

- Thermal Cycling Systems
- Cooling Systems
- Liquid Transport Systems
- Other Fluid Systems





ULTRASONIC SENSORS FOR **FLUID MEASUREMENT**

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