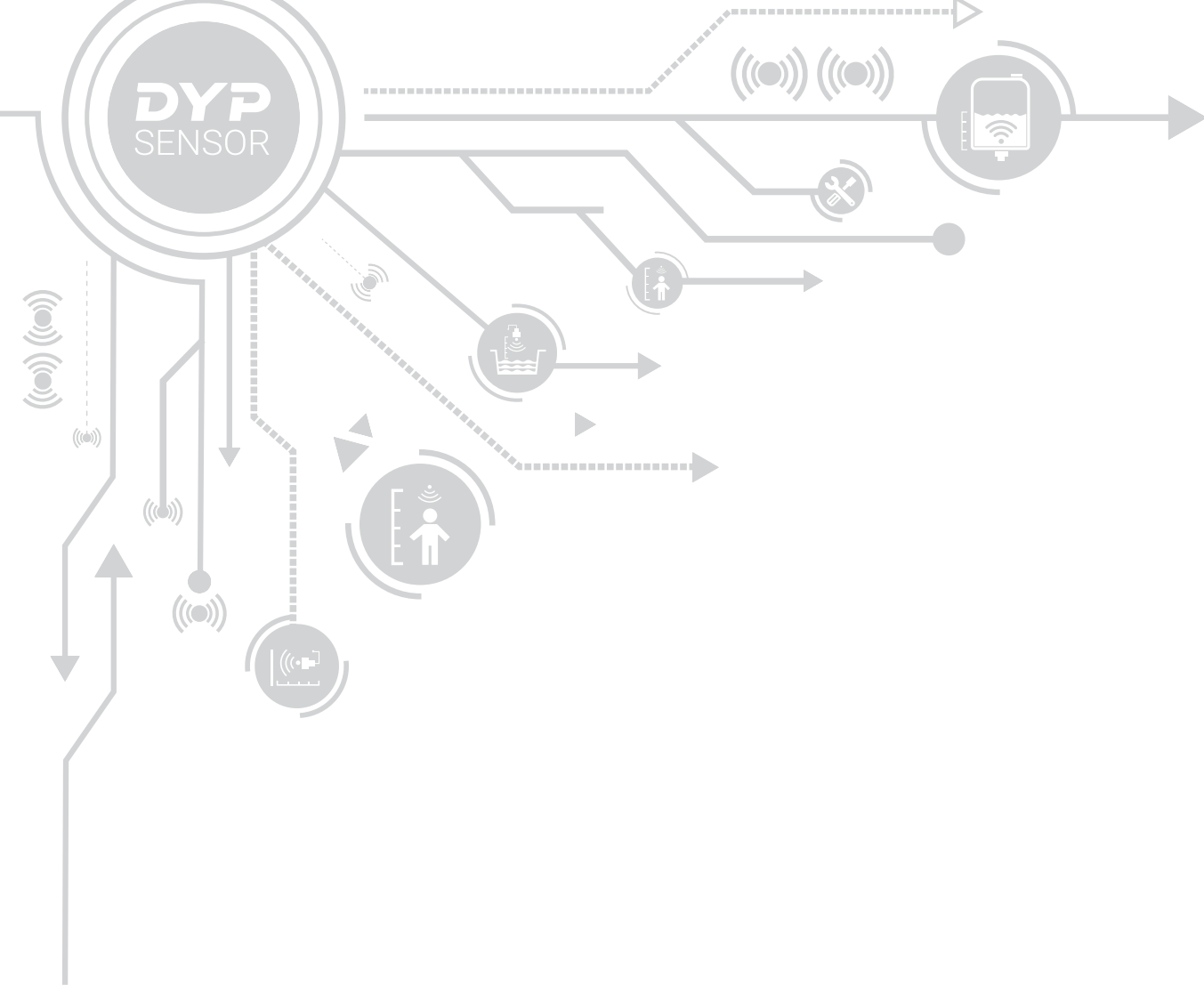
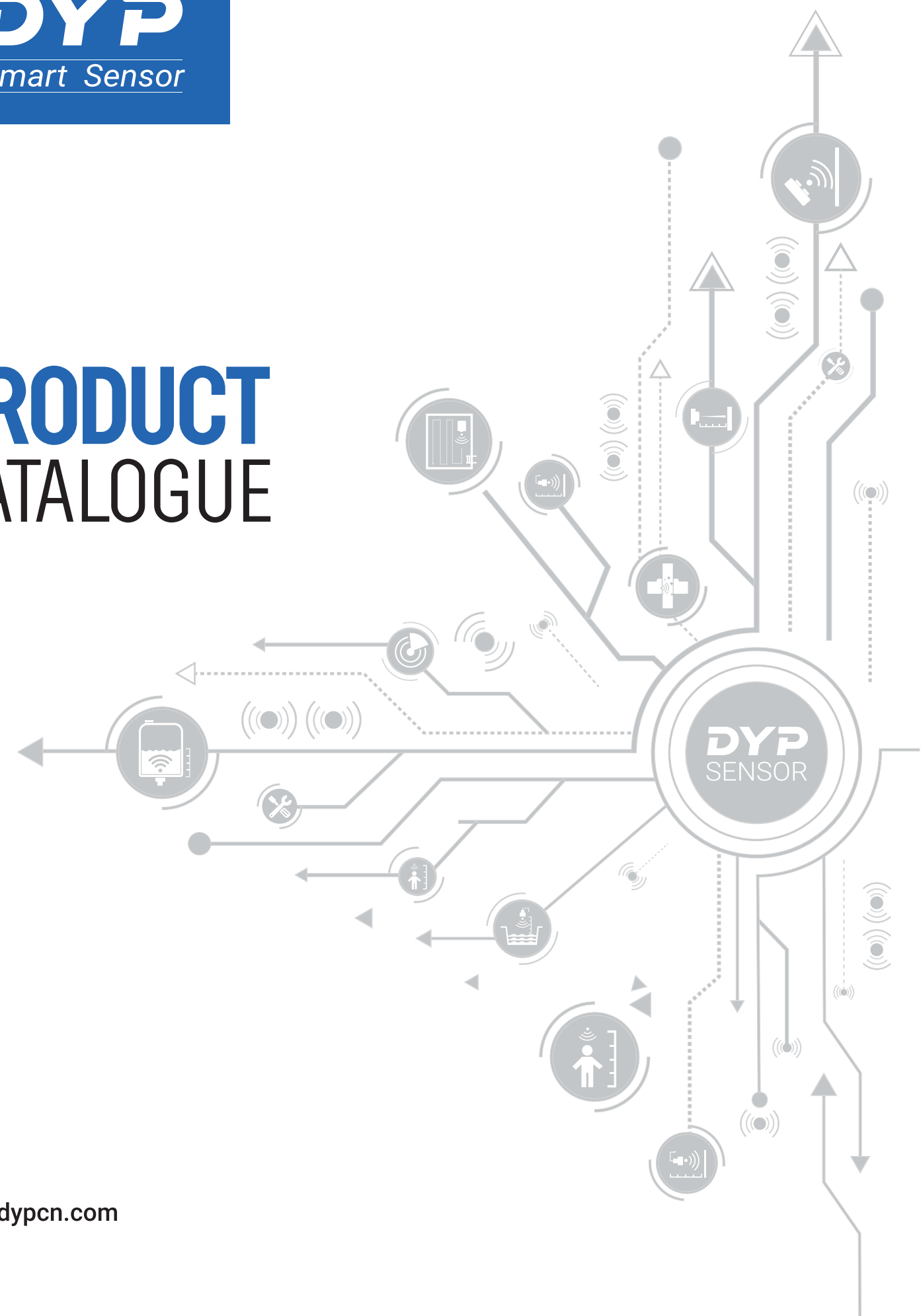


PRODUCT CATALOGUE



DYP Alibaba Store

Shenzhen DYP Technology Co., Ltd.
Smart Sensors And Solutions Supplier

Phone : 0086 177 2473 1830

Add : 7th Floor, Block A, Dahong Hi-Tech industrial zone, Shajing, Bao'An district,
shenzhen 518104, China

www.dypcn.com

DYP COMPANY INTRODUCTION

Established in 2008, Shenzhen Dianyingpu Technology Co., Ltd. (DYP) is a leading innovator in ultrasonic sensing technology. As a national high-tech enterprise, we have specialized in the research, design, manufacturing, and sales of sensor solutions, offering comprehensive services to our clients since 2008.

Intellectual Property: With over 40 patents, DYP is a testament to our dedication to innovate in ultrasonic sensing.

Applications: Our technology drives advancements in IOT, smart device manufacturing, and electronic products. We excel in smart robotics, parking systems, height measurement, water level detection, waste management, AGV vehicles, and liquid level sensing.

Track Record: Our sensors power over 5,000 global projects, underscoring our reliability and the confidence of our customers.

Recognition: DYP is recognized for exceptional products and services, positioning us as a top choice among industry suppliers.

Mission: We aim to lead the smart sensing industry in China, setting the pace for innovation.

Business Philosophy: Guided by integrity, professionalism, and mutual trust, we pursue sustainable development and continuously improve our offerings to meet customer needs.

Partnerships: We value strong partnerships, collaborating for industry growth and shared success.

Join Us on the Cutting Edge: Discover the DYP difference for yourself. Experience our commitment to innovation, quality and service. Let's work together to shape the future of smart sensing technology.

感知世界，智能为你！
Sensing Smart for You.

DYP SENSOR TECHNOLOGY

SMART SENSORS AND SOLUTIONS SUPPLIER

01 SENSORS FOR DETECTING IN AIR



06 SENSORS FOR DETECTING FUEL LEVEL IN TANKS



02 SENSORS FOR OBSTACLE AVOIDANCE OF ROBOTS



07 SENSORS FOR SWIMMING POOL CLEANING ROBOTS



03 SENSORS FOR DETECTING BODY HEIGHT



08 ULTRASONIC WATER LEVEL AND OIL LEVEL MONITOR

04 SENSORS FOR ENVIRONMENT WATER LEVEL



09 IBC TANK LIQUID AND MATERIAL LEVEL MONITOR

05 SENSORS FOR DETECTING WATER LEVEL IN CONTAINERS



10 OTHER SERIES (MILLIMETER WAVE, BUBBLE, LASER)

PRODUCTS
CATALOGUE

01

SENSORS FOR DETECTING IN AIR



Parking Space Lock Detection



Human Detection



Turnstile Approach Sensing



Ice Machines Overflow
Detection



Ranch Animal Monitoring

INTEGRATED ULTRASONIC SENSOR DYP-A01



Product Features: Cost-effective; IP67 full protection; Low power consumption

Scope of Applications: Garbage overflow detection; Water level monitoring

Product Model	DYP-A01A
Operating Voltage	3.3 ~ 5V (DC)
Range	28 ~ 750 cm
Detection Angle(°)	X: 40 Y: 40
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

SPLIT ULTRASONIC SENSOR DYP-A02



Product Features: Small blind zone; Transmitter and receiver separate design;

Scope of Applications: Person presence detection; Distance measurement; Obstacle avoidance

Product Model	DYP-A02
Operating Voltage	3.3 ~ 24V (DC)
Range	3 ~ 450 cm
Detection Angle(°)	X: 60 Y: 60
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

ONE-TO-FOUR ULTRASONIC SENSOR DYP-A05



Product Features: Cost-effective; IP67 full protection; Four probes can measure objects in multiple directions

Scope of Applications: Security equipment sensing; Mobile device obstacle avoidance

Product Model	DYP-A05
Operating Voltage	9 ~ 36V (DC)
Range	25 ~ 450 cm
Detection Angle(°)	X: 60 Y: 60
Accuracy	± (10+S*0.3%) mm
Protection Grade	Partial Protection (Probe IP67)

INTEGRATED ULTRASONIC SENSOR DYP-A06



Product Features: High sensitivity; Optional probe with cable

Scope of Applications: Robot obstacle avoidance; Access control human detection

Product Model	DYP-A06A (Flat Mode)
Operating Voltage	3.3 ~ 5V (DC)
Range	25 ~ 600 cm
Detection Angle(°)	X: 45 Y: 45
Accuracy	± (10+S*0.3 ~ 0.5%) mm
Protection Grade	Partial Protection (Probe IP67)

PRODUCTS
CATALOGUE

01

SENSORS FOR DETECTING IN AIR



Engineering Vehicle Safety Protection



Waster Bin Overflow Monitoring



Vehicle Detection At Expressway Intersection



Safety Helmet Protection

INTEGRATED ULTRASONIC SENSOR DYP-A15



Product Features: Small angle; Reflective structure; Multiple output methods; High measurement accuracy

Scope of Applications: Blade opening detection; Industrial automation target detection

Product Model	DYP-A15
Operating Voltage	3.3 ~ 24 (DC)
Range	15-200 cm
Detection Angle(°)	X: 20 Y: 20
Accuracy	± (5+S*0.3%) mm
Protection Grade	IP67

INTEGRATED ULTRASONIC SENSOR DYP-A12



Product Features: Small angle; Reflective structure; Two measurement modes; High measurement stability; Low power consumption design;

Scope of Applications: Vehicle detection at expressway intersection

Product Model	DYP-A12A (Flat Mode)
Operating Voltage	3.3 ~ 24V (DC)
Range	25-500 cm
Detection Angle(°)	X: 21 Y: 21
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

INTEGRATED ULTRASONIC SENSOR DYP-A19



Product Features: Small size; Multiple output methods; Onboard temperature compensation function

Scope of Applications: Liquid level measurement; Robot obstacle avoidance; Parking management system

Product Model	DYP-A19
Operating Voltage	3.3 ~ 5 V (DC)
Range	28-450 cm
Detection Angle(°)	X: 60 Y: 60
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

INTEGRATED ULTRASONIC SENSOR DYP-A13



Product Features: Small angle; Reflective structure; Wide voltage supply; Onboard temperature compensation function

Scope of Applications: Intelligent trash bin management system

Product Model	DYP-A13
Operating Voltage	3.3 ~ 24V (DC)
Range	25-200 cm
Detection Angle(°)	X: 20 Y: 20
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

SENSORS FOR OBSTACLE AVOIDANCE OF ROBOTS

02



Robot Dog



Lawn Mowing Robot



Food Delivery Robot



Inspection Robot



Agv Robot



Cleaning Robot



Logistics Delivery Vehicles

SPLIT ULTRASONIC SENSOR DYP-A21



Product Features:Ms-level response time;Single and double angle optional;Built-in noise reduction function;Intelligent ultrasonic processing technology

Scope of Applications:Ground robot obstacle avoidance

Product Model	DYP-A21A
Operating Voltage	3.3 ~ 24V (DC)
Range	3 ~ 500 cm
Detection Angle(°)	X: 50 ~ 70 Y: 50 ~ 70
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

SPLIT ULTRASONIC SENSOR DYP-A22



Product Features:1cm standard blind zone; Built-in noise reduction function;Intelligent ultrasonic processing technology

Scope of Applications:Ground robot obstacle avoidance

Product Model	DYP-A22
Operating Voltage	3.3 ~ 12 V (DC)
Range	1 ~ 300 cm
Detection Angle(°)	X: 30 ~ 60 Y: 30 ~ 60
Accuracy	± (10+S*0.5%) mm
Protection Grade	IP67

OBSTACLE SENSOR DYP-A24



Product Features:Double angle ;Ms-level response time; Anti-interference performance;

Scope of Applications: Intelligent robot mower

Product Model	DYP-A24
Operating Voltage	3.3 ~ 12V (DC)
Range	20 ~ 200 cm
Detection Angle(°)	X:105±15° Y:67±10°
Accuracy	1+(S*0.5%) cm
Protection Grade	IP67

OBSTACLE SENSOR DYP-A25

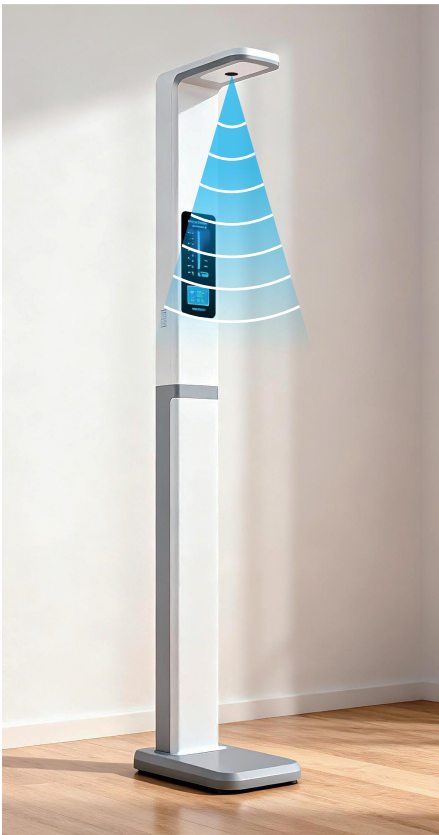


Product Features: 5 adjustable range levels ; Ms-level response time; 3cm small blind zone;

Scope of Applications: Robot obstacle avoidance, automatic contro; Industrial AGV; Tennis ball collection robot;Commercial service robot;

Product Model	DYP-A25
Operating Voltage	3.3 ~ 12V (DC)
Range	3 ~ 500cm
Detection Angle(°)	A25A: X:40~60° Y:90~120° A25B: X:20~40° Y 50~80°
Accuracy	±1+(S*0.5%)cm
Protection Grade	IP67

SENSORS FOR DETECT- ING BODY HEIGHT



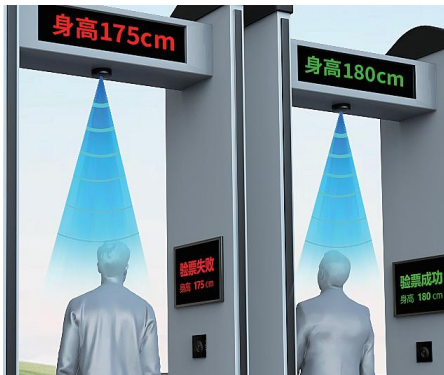
Intelligent Height Detector



Baby Scale



Health Monitoring All-in-one
Machine



Intelligent Height Measurement
With Ticket Verification

HEIGHT MEASUREMENT MODULE DYP-H01

Product Features:Stable data;High precision; Onboard tempera-
ture compensation;Capacitive electrostatic transducer probe

Scope of Applications:High precision height measurement instruments

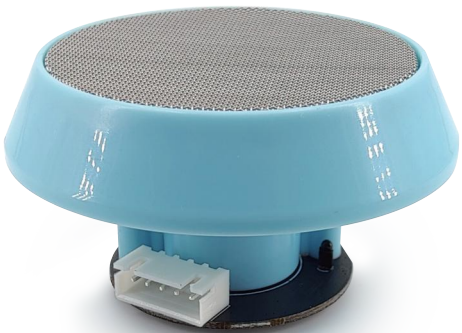


Product Model	DYP-H01
Operating Voltage	5 ~ 12V (DC)
Range	10 ~ 800 cm
Detection Angle(°)	X: 16 Y: 16
Accuracy	± (5+S*0.2%) mm
Protection Grade	No Protection

HEIGHT MEASUREMENT MODULE DYP-H02

Product Features:High precision; Onboard temperature compensa-
tion.Repeat accuracy < 3mm;

Scope of Applications: High precision height measurement instruments



Product Model	DYP-H02
Operating Voltage	DC3.3~12.0V
Range	15-250 cm
Detection Angle	X: 19 Y: 19
Measurement Accuracy	±2mm
Repetition Accuracy	≤3mm
Output Interface	Uart controlled.Uart edge trigger, PWM processing value, RS485 output

PRODUCTS
CATALOGUE

04

SENSORS FOR ENVIRONMENT WATER LEVEL



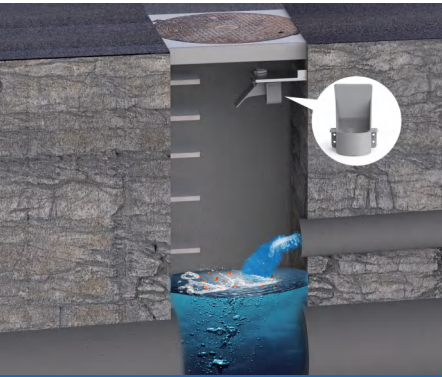
River Water Level Monitoring



Dam Water Level Monitoring



Snow Monitoring



Manhole Water Level Monitoring



Urban Road Water Logging Monitoring

INTEGRATED ULTRASONIC SENSOR DYP-A07



Product Features: IP67 full protection; Low power consumption design; Transducer corrosion-resistant treatment; Built-in onboard temperature compensation

Scope of Applications: Snow thickness monitoring; Environmental water level monitoring; Manhole water level monitoring

Product Model	DYP-A07A
Operating Voltage	3.3 ~ 5.0V (DC)
Range ⁽¹⁾	25 ~ 800 cm
Detection Angle(°)	X: 15 Y: 15
Accuracy	± (10+S*0.3%) mm
Operating Temperature	-15~+60 °C

INTEGRATED ULTRASONIC SENSOR DYP-A08



Product Features: Cost-effective; Three measurement modes; Low power consumption design

Scope of Applications: Garbage overflow monitoring; Water accumulation level monitoring; Environmental water level monitoring

Product Model	DYP-A08A(Flat Mode)
Operating Voltage	3.3 ~ 5V (DC)
Range	25-800 cm
Detection Angle(°)	X: 20 Y: 20
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

INTEGRATED ULTRASONIC SENSOR DYP-A16



Product Features: Small angle; High range; Reflective structure; Low power consumption design

Scope of Applications: Reservoir water level measurement

Product Model	DYP-A16
Operating Voltage	3.3 ~ 24V (DC)
Range	50-1500 cm
Detection Angle(°)	X: 40 Y: 40
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

INTEGRATED ULTRASONIC SENSOR DYP-A17



Product Features: High measurement accuracy; Anti-water accumulation process; Energy-focusing structure, small angle

Scope of Applications: Manhole water level monitoring; Sewage well water level monitoring

Product Model	DYP-A17
Operating Voltage	3.3 ~ 5V (DC)
Range	25-1000 cm
Detection Angle(°)	X: 15 Y: 15
Accuracy	± (10+S*0.3%) mm
Protection Grade	IP67

PRODUCTS
CATALOGUE

05

SENSORS FOR DETECT- ING WATER LEVEL IN CONTAINERS



Humidifier Liquid Level Monitoring



Recreational Vehicle Water Tank Liquid Level Monitoring



Green Plant Nutrient Solution Monitoring

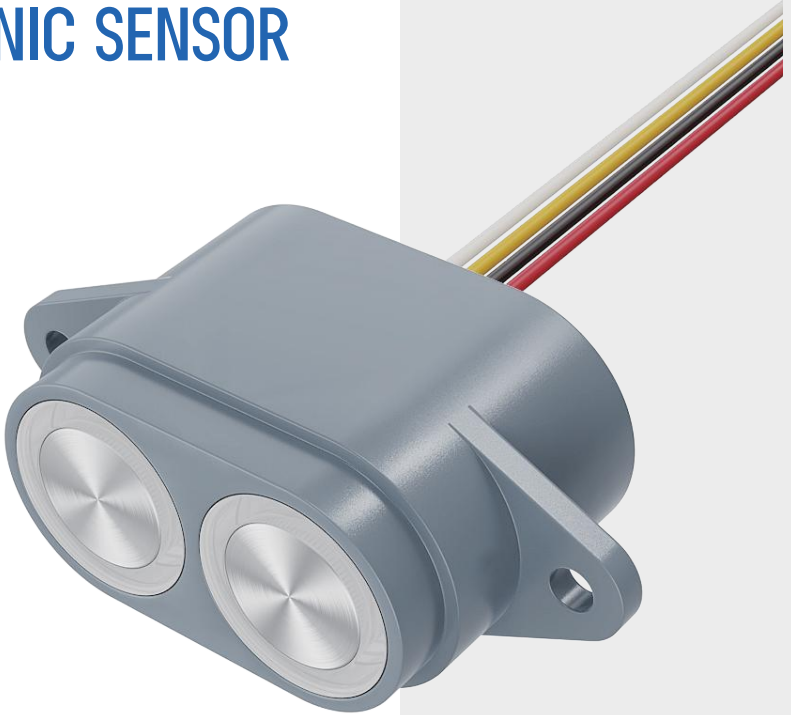
INTEGRATED ULTRASONIC SENSOR DYP-L07

Product Features:

- Waterproof structure;
- 1.5cm standard blind zone;
- Food-grade, corrosion-resistant grade

Scope of Applications:

- Green plant box nutrient solution monitoring;
- Soilless cultivation nutrient solution monitoring;
- Air disinfectant box internal disinfectant liquid level monitoring



Product Model	DYP-L07A	DYP-L07B (Food-grade)	DYP-L07C (Anti-corrosion)
Product Appearance			
Operating Voltage	3.3 ~ 12V (DC)	3.3 ~ 12V (DC)	3.3 ~ 12V (DC)
Range	1.5 ~ 200 cm	1.5 ~ 200 cm	1.5 ~ 200 cm
Detection Angle(°)	X: 10~50 Y: 10~50	X: 10~50 Y: 10~50	X: 10~50 Y: 10~50
Accuracy	±(5+S*0.3%) mm	±(5+S*0.3%) mm	±(5+S*0.3%) mm
Protection Grade	IP67	IP67	IP67

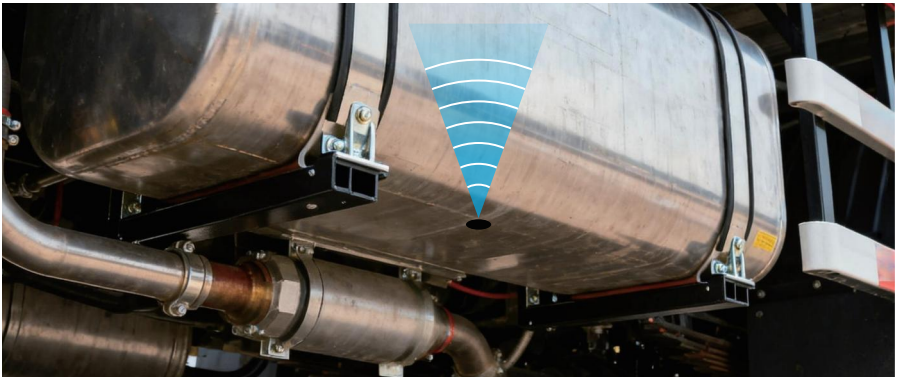
PRODUCTS
CATALOGUE

06

SENSORS FOR DETECT- ING FUEL LEVEL IN TANKS



Lpg Monitoring



Oil Level Monitoring For Fuel Tankers



Transformer Oil Conservator
Level Monitoring



Oil Level Monitoring For
Fuel Tankers

OIL LEVEL SENSOR

Product Features:Accurate perception of fuel consumption
High-frequency ultrasonic detection; Non-contact measurement;
Continuous measurement;

Scope of Applications: Filling liquid gas measurement;Transformer
oil pillow level monitoring;Vehicle fuel tank oil tank level monitoring



Product Model	DYP-U02	DYP-U03
Operating Voltage	12 ~ 48V (DC)	12 ~ 48V (DC)
Range	5 ~ 100 cm	8 ~ 200 cm
Measurable Container Thickness	0.6 ~ 5 mm	4 ~ 7 mm
Accuracy	≤ 5 mm	±(5+S*0.5%) mm
Protection Grade	IP67	IP67

NON-CONTACT LIQUID LEVEL SENSOR

Product Features:Multiple output methods; High-frequency ultrasonic
detection; Non-contact measurement of liquid level

Scope of Applications:Static water level height detection;
Real-time detection of liquid level inside containers



Product Model	DYP-DS1603	DYP-L02
Operating Voltage	10 ~ 36V (DC)	2.8~5V (DC)
Range	5 ~ 200 cm	2~200 cm
Measurable Container Thickness	0.6 ~ 2 mm	0.6~2 mm
Accuracy	±(5+S*1%) mm	±(5+S*0.5%) mm
Protection Grade	IP67	IP67

PRODUCTS
CATALOGUE

07

SENSORS FOR SWIMMING POOL CLEANING ROBOTS



Wireless Control Of Underwater Machines



Swimming Pool Surface Cleaning Robot
Obstacle Avoidance



Underwater Swimming Pool Cleaning Robot
Obstacle Avoidance

OBSTACLE SENSOR DYP-A23



Product Features:4cm small blind zone;
Measuring in 2 directions;Low power consumption

Scope of Applications:Swimming pool surface cleaning
robot obstacle avoidance

Product Model	DYP-A23
Operating Voltage	5V (DC)
Range	4 ~ 200 cm
Detection Angle(°)	X: 40±15 Y: 40±15
Accuracy	±(10+S*0.3%) mm
Protection Grade	Partial Protection (Probe IP67)

UNDERWATER RANGING SENSOR DYP-L08



Product Features:Working depth of 8 meters;Supports
offline remote upgrade;Supports module communication
baud rate modification

Scope of Applications:Swimming pool underwater cleaning
robot obstacle avoidance

Product Model	DYP-L08
Operating Voltage	5V (DC)
Range	5 ~ 800 cm
Detection Angle(°)	X: 15 Y: 15
Accuracy	±(10+S*1%) mm
Protection Grade	IP68

UNDERWATER ACOUSTIC COMMUNICATION SENSOR DYP-C01



Product Features:Fast remote control function, multi-byte communication;
High-precision positioning,Corrective regression function;360-degree
underwater communication;

Scope of Applications:Wireless control for underwater robots;Data commu-
nication for underwater environmental monitoring;

Product Model	DYP-C01
Operating Voltage	5V±5%V (DC)
Max Communication Distance	1 ~ 2000 cm
Communication Bytes	Max 18
Communication Angle	360°
Positioning Accuracy	± (3+S*1%) cm
Protection Grade	IP68, Water pressure resistant up to 5m @ 168H

ULTRASONIC WATER&OIL TANK GAUGE

PLH-SL02

08

Product details:

It integrates Wi-Fi wireless communication, an internal battery, a central processing unit, a companion APP and a high-precision sensor. The main function is to keep monitoring the liquid level and transmitting real-time data to the user interface, facilitating timely refueling.



Product parameters &features:

Product Model	PLH-SL02
Function	Water & Oil Level Monitoring
Range	1~300 cm
Protection grade	IP67 .Explosion-proof certification
Operating Voltage	4~7.2v
Output interface	WIFI+Public network+APP, Transfer distance: ≥30meters
Accuracy	±(10+S*0.3%)mm

 Non-contact measurement No worry tangling, clogging, or corrosion	 Remote monitoring via mobile phone The system uses a combination of Wi-Fi, public network, and mobile app. Data can be viewed in real-time via the mobile app.	 Multiple alarm functions High and low liquid level warnings, abnormal data alarms, etc.
 Battery life of over 3 years Powered by AA batteries, battery life of over 3 years, worry-free.	 Explosion-proof safety certification Explosion-proof safety certification, IP67	 Wide operating temperature range Operating temperature -20℃ to 60℃; automatic temperature compensation.

Application cases :



IBC TANK LEVEL MONITOR

PLH-SL01

09

Product details:

The IBC/Tote Tank Level Monitor is an all-in-one wireless device with built-in Wi-Fi, battery, and a mobile app. It provides reliable level measurement without the clogging or maintenance issues common in traditional methods. Perfect for monitoring liquids in IBC totes, tanks, and vessels across industries like chemical, municipal, and storage.



Product parameters &features:

Product Model	PLH-SL01
Function	Material Level & Liquid Height Monitoring
Range	6-300cm
Protection grade	IP67, Explosion-proof certification
Output interface	WIFI+Public network+APP, Transfer distance: ≥30meters
Operating Voltage	4~7.2 V
Accuracy	±(0.5+S*0.5%)cm

 Non-contact measurement No worry tangling, clogging, or corrosion	 Remote monitoring via mobile phone The system uses a combination of Wi-Fi, public network, and mobile app. Data can be viewed in real-time via the mobile app.	 Multiple alarm functions High and low liquid level warnings, abnormal data alarms, etc.
 Battery life of over 3 years Powered by AA batteries, battery life of over 3 years, worry-free.	 Explosion-proof safety certification Explosion-proof safety certification, IP67	 Wide operating temperature range Operating temperature -20℃ to 60℃; automatic temperature compensation.

Application cases :



MILLIMETER WAVE RADAR DYP-M01

Product Features: Blind zone ≤6cm;Frequency 60GHz;Supports module communication baud rate modification

Scope of Applications: IBC drum liquid level detection

Product Model	DYP-M01	IBC drum liquid level detection
Operating Voltage	5 ~ 36V (DC)	
Range	6 ~ 300 cm	
Detection Angle(°)	X: 15 Y: 15	
Accuracy	±(5+S*0.5%) mm	
Protection Grade	IP67	

BUBBLE SENSOR DYP-L01

Product Features:Good temperature performance; Not affected by fluid color and pipe material changes; Other specification pipe diameters can be customized

Scope of Applications: Pipeline liquid presence alarm; Infusion pump bubble detection

Product Model	DYP-L01	Infusion pump bubble detection
Operating Voltage	3.3 ~ 24V (DC)	
Detection Pipe Diameter	3.5 ~ 4.5 mm	
Response Time	Adjustable 0.2~100 ms Default 0.2 ms	
Minimum Bubble Detection	10 uL	
Protection Grade	IP67	

LASER SENSOR DYP-R01

Product Features:High waterproof grade;Fast distance measurement response;Supports baud rate, address modification

Scope of Applications:High-speed focusing;Robot obstacle avoidance and automatic control

Product Model	DYP-R01	Human sensing system wake-up - smart door lock
Operating Voltage	3.3 ~ 5V (DC)	
Range	2 ~ 400 cm	
Detection Angle(°)	X: 19 Y: 19	
Accuracy	S≤25cm : 10mm S≥25cm : S*4%mm	
Protection Grade	IP67	

CUSTOMIZED SOLUTIONS FOR MULTIPLE INDUSTRIES • CASE STUDIES • EMPOWERING SMART UPGRADES

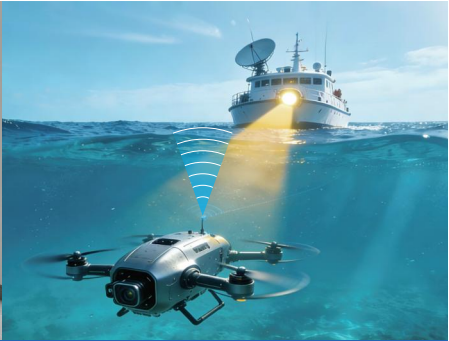
DYP Sensors stand out with high precision, excellent stability, and strong anti-interference. They suit various applications and offer customized solutions to meet specific needs, empowering enterprises to advance their intelligent transformation.

• **Focused robotics industry:**

Obstacle avoidance navigation, Fall detection



Focusing on robot obstacle avoidance applications



Long-distance underwater acoustic communication

• **Smart Ocean industry:**

Long-range underwater acoustic communication, Underwater obstacle detection



Application of agricultural irrigation water level



Ship anti-reef inspection

• **Smart agriculture industry:**

Crop height measurement, Irrigation water level control

• **Smart home industry:**

Intelligent sensing control of home appliances, Security distance alarm



Collision prevention for elderly care equipment



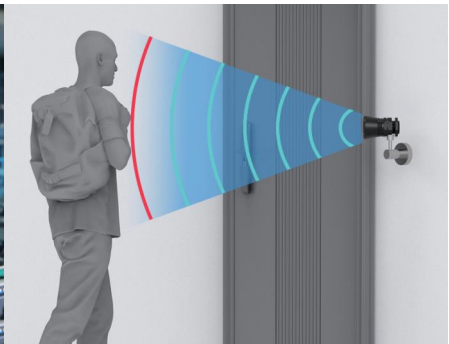
Production line distance detection

• **Smart health and wellness industry:**

Anti-collision and barrier-free assistive sensing for elderly care equipment



Chemical container liquid level monitoring



Security distance alarm

• **Smart industrial application:**

Distance detection of production lines, Liquid level monitoring of chemical containers