



AAPDS-300

Distance Measurement Sensor



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The AAPDS-300 sensor is a high-precision distance measurement device designed for a range of 2-100cm. It delivers exceptional accuracy with $\pm 0.3\text{cm}$ or 5% of the measured value, ensuring reliable results. With its rugged construction and IP68/NEMA6P protection, this sensor excels in challenging environments. Featuring a 3-way 4-20mA output and MODBUS RS485 communication, it offers easy integration and networking. Ideal for diverse applications that demand accurate distance measurements.



Product Features

- **Built-in Self-Diagnosis:** Ensures accurate and reliable data through self-checks.
- **Reverse Polarity Protection:** Safeguards the sensor from potential power-related issues.
- **Time Display and Data Storage:** Offers historical data viewing convenience.
- **Dual-Beam Infrared Scattering Photometer:** Provides high repeatability and stability.
- **Optional Wireless Data Transmission:** Enables wireless data transfer for added flexibility.
- **Optional Cleaning Brush Function:** Reduces the need for frequent sensor maintenance.
- **Digital Sensor with Anti-Interference:** Ensures strong performance and long transmission distance.
- **Standard Digital Signal Output:** Enables equipment integration without a separate transmitter.
- **Plug-and-Play Installation:** Quick and convenient on-site sensor setup.
- **RS485 A/B End Power Supply Connection:** Enhanced protection during installation.



AAPDS-300

Technical Specifications

Basic Specifications	
Model	AAPDS-300
Measurement Range	Deviation value calibration 2-100cm
Measurement Accuracy	±0.3cm or 5% of value, whichever is greater
Communication Protocol	MODBUS RS485
Physical Attributes	
Output	3-way 4-20mA
Protective Rate	Sensor: IP68/NEMA6P; Transmitter: IP65/NEMA4X
Pressure Range	≤0.4Mpa
Size	Sensor: D60mm * L254mm
	Transmitter: 145×125×162mm (L×W×H)
Flow Rate	Calibration slope ≤2.5m/s, 8.2ft/s
Weight: Sensor	1.65KG; Transmitter: 1.35KG
Operating Parameters	
Power Supply	AC Power: 85-500VAC (50/60HZ), DC Power: 9-36VDC
Storage Temperature	-15-50°C
Measuring Temperature	0-45°C (Non-freezing)



APPLICATIONS



Industrial Automation

Precise distance measurement for robotics, conveyor systems, and assembly lines.



Warehousing and Logistics

Optimize storage space utilization with accurate object placement measurements.



Parking Systems

Ensure efficient parking management with precise vehicle positioning.



Material Handling

Facilitate efficient loading and unloading operations in warehouses.



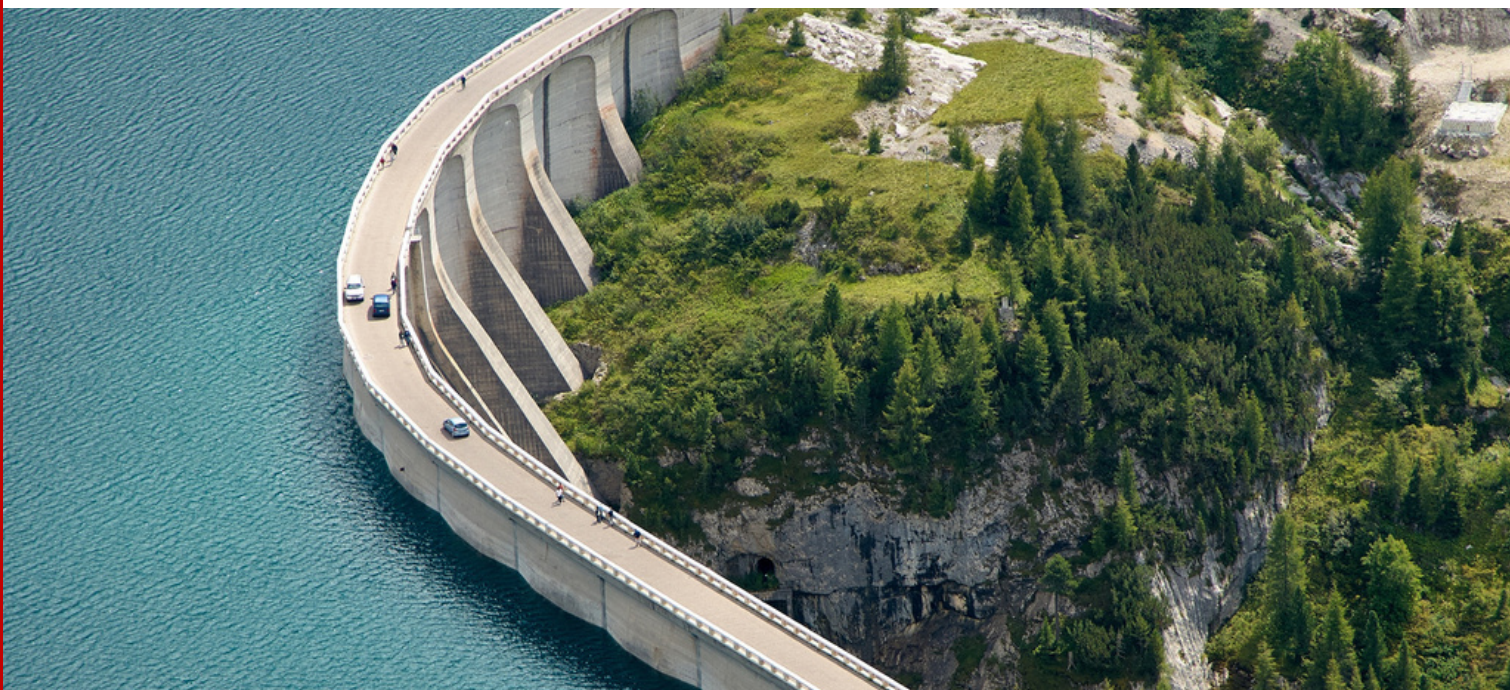
Security Systems

Enhance security by accurately detecting intrusions in restricted areas.



Research Institutions

Study algal behavior and distribution for research purposes



Note -

This data sheet serves as general information about the AAPDS-300. For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact info@advanceanalytik.com.

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