ASD-900 water automatic sampler

Technical Specification

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ROXWELL INSTRUMENTS LLC
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Catalogue

ASD-900 water automatic sampler

1. Order information

Model number: ASD-900

Specification: 1000ml 24 bottles of multifunction, equal proportion

For a purchase or quote, please contact the Product Manager

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2. Product presentation

2.1 Overview

ASD-900 (portable separate mining) automatic water sampler is a special environmental monitoring instrument used for surface water and sewage sampling, water source monitoring, carrying out pollution source investigation and total amount control. It adopts the international general peristaltic pump water mode, controlled by the single chip controller. Users can input the sampling time interval, sampling amount and sampling method as required. It can automatically complete the corresponding work online. After connecting the flow sensor, the dual work of sewage metering and sampling according to the flow proportion can be realized. This instrument is a portable bottle water sampler, equipped with DC12V-16.8V (standard external large capacity lithium battery 14.8V 7.8 AH) power supply, which is suitable for environmental monitoring stations at all levels, labor health, scientific research institutes to river, river, lake, sea surface water or pollution sources after determining the sampling points.

2.2 Application industry

It is used for various water environment scientific research and environmental monitoring stations, water conservancy and hydrology, health and epidemic prevention stations, CDC, universities, and other portable environmental assessment departments.

2.3 Product characteristics

- 24 1000ml sampling bottles;
- Distribution system for self-lubrication, positioning and self-locking type;
- color LCD screen, simple and clear operation;
- Sampling peristaltic pump pipe has large diameter and fast flow speed, which can effectively avoid pipeline blockage;
- Configure DC12V-16.8V (standard external large capacity lithium battery 14.8V 7.8 AH) power supply;
- ABS shell protection class IP65, can be used in the field, easy to carry;
- Independent research and development, modular design, highly integrated, low failure rate, simple maintenance and convenient maintenance;
- Smart cloud management platform is optional.

2.4 Technical indicators

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Sample mode	Standard sampling: Sampling delay time: (1~9999 minutes) arbitrarily set, 1 minute increment Sampling interval time: (1~9999 minutes) arbitrarily set, 1 minute increment Sample amount: (5 ~ 1000 mL) arbitrarily set, increment of 1 ml Mixed sampling: Sampling delay time: (1~9999 minutes) arbitrarily set, 1 minute increment Sampling interval time: (1~9999 minutes) arbitrarily set, 1 minute increment Sample amount: (5 ~ 1000 mL) arbitrarily set, increment of 1 ml Number of mixed samples: (1~200) Parallel sampling: Sampling delay time: (1~9999 minutes) arbitrarily set, 1 minute increment Sampling interval time: (1~9999 minutes) arbitrarily set, 1 minute increment Sample amount: (5 ~ 1000 mL) arbitrarily set, increment of 1 ml Number of parallel samples: (1~24) Flow trigger: Flow triggered sampling: dedicated flow meter controls sampling. An optional ultrasonic liquid level sensor is required, and can be set arbitrarily from 1 to 9999 cubic meters of water in increments of 1 cubic meter. Pulse trigger: Pulse trigger sampling: 1 to 9999 pulses can be set arbitrarily, with an increment of 1 pulse. The received pulse is a passive pulse and the closing time is greater than 1 second.
* Sampling pump characteristics	Sampling flow rate: 3,700 mL / min Inner diameter of the pump pipe: 10 mm Pump tube material: high-strength medical silicone tube Pump assembly material: the pump body is reinforced engineering plastic, fast disassembly module combination, motor shaft, pump pipe roller support is made of stainless steel. Sample volume error: ± 5% Sampling repetition accuracy: ± 5 mL Vertical lift: 8 m Horizontal suction range: 50 m Air tightness of pipeline system: ≤-0.085MPa

Software function	Operation interface: large screen 2.8 TFT color LCD screen, all Chinese menus, man-machine dialogue mode, need human intervention when the Chinese prompts. Bottle sampling: * The instrument can sample 1-24 bottles, the number of bottles can be freely set, and the distribution system is self-lubricating and positioning self-locking type, and direct water injection is used to avoid cross contamination of water samples caused by diversion plate diversion. Pipeline cleaning: moisten the pipeline by "blowing-suction-blowing" to avoid cross contamination of samples. Software password lock: it can protect the program set in the instrument from being modified. Sampling program preset: 10 common working programs can be preset and stored according to the sampling requirements, which can be called directly later External pump control: the sampling distance can be extended by controlling the external submersible pump or self-priming pump. Sampling record: sampling status, sampling bottle number, sampling time. Can store 5,000 bars Flow record (after selecting the flow meter): instantaneous flow, cumulative flow and time. Can store 6,000 bars (Need to choose ultrasonic liquid level sensor).
Other parameters	Water container: 24 1000ml polyethylene water bottles Pre-filtration: a special filter head. According to the water quality of the stainless steel filter can be selected in the corresponding number. Clock time control of the system: error △1≤0.05% and △12≤3S Average fault-free continuous running time (MTBF): ≥1440h / time Insulation impedance:> 20 MΩ Communication interface: internal MODBUS protocol 1-way RS232 / RS485 digital interface (default RS232) Simog input 14 ~ 20 mA, 12 bit resolution Switch quantity input 1 channel passive Switch quantity output 1 active, 15VDC / 200 mA

Service condition	Power supply: DC12V-16.8V (standard external large-capacity lithium battery 14.8V 7.8 AH) Rated power: 35W Working environment temperature: -5℃ to + 50℃ Working environment humidity: 5-85% RH Shell material: ABS material, light, acid and alkali resistance, corrosion, anti-aging Protection level: IP65 Weight: 15kg ∅Overall dimensions: 480mm×720mm (diameter×height)
* Optional	1.The intelligent cloud management platform can be selected to realize the remote cloud platform control.(Sampling can be set remotely by any Internet computer or mobile phone) 2.Ultrasonic liquid level sensor (realize the function of flow meter)

3. Contact us

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