# T9039K Automatic Water Quality Sampler

## Product Overview:

An automatic water quality sampler is an intelligent device used for the automated collection of water samples. It is primarily applied in the field of environmental monitoring, such as in rivers, lakes, industrial wastewater discharge outlets, and other scenarios. It serves as a supervisory tool for environmental monitoring and scientific research departments to accurately regulate wastewater discharge from chemical enterprises. The design of the automatic water quality sampler complies with the national standard HJ/T 372-2007. Controlled by a microcomputer and equipped with a high-precision peristaltic pump, it supports various sampling, analytical supply, and sample preservation modes, including timed, fixed-flow, and proportional sampling. It also enables remote control and data communication.

## Product Technical Specifications

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**Execution Standard:** HJ 372 "Technical Requirements and Test Methods for Automatic Water Quality Samplers"

**Input Power:** AC (220±22) V, (50±0.5) Hz

**Power:** ≤260 W

**Sampling Interval:** 1 min ~ 9999 min

**Insulation Impedance:** >20 MΩ

**Single Sample Volume:** 10 ml ~ 1000 ml

**Minimum Maintenance Interval:** ≥168 h

**Sampling Volume Error:** ±5%

**Ambient Humidity:** ≤85%

**Proportional Sampling Error:** ±15%

**Sampling Bottle Rack:** 4 LAB mixing bottles

**Retained Sample Volume Error:** ±5%

**Retained Sample Bottles:** 24 × 1100 ml retained sample bottles

**Proportional Retained Sample Error:** ±15%

**Dynamic Control Interface:** 1 × 485/232 (standard)

**Ambient Temperature:** 5°C ~ 40°C

**Flow Meter/Liquid Level Analog Interface:** 1 × 4-20 mA

**Refrigerator Temperature Control Error:** ±2°C

**Water Quality Analyzer Analog Interface:** 6 × 4-20 mA

**Vertical Sampling Height:** ≥5 m

**Switch Control Sample Retention Interface:** 6 × passive switch contacts

**Horizontal Sampling Distance:** ≥50 m

**Switch Control Sampling Interface:** 1 × active switch contact

**Pipeline System Air Tightness:** ≤-0.08 MPa

**Switch Control Sample Supply Interface:** 1 × active switch contact

**Door Open/Close Records:** 40,000 entries

**Sample Retention Alarm Switch Output:** 1 × active switch contact

**Sampling Records:** 40,000 entries

**Sample Supply Status Switch Output:** 1 × passive switch contact

**Power Failure Records:** 20,000 entries

**Mean Time Between Failures (MTBF):** ≥1440 h/time

**System Clock Timing Error:** $\Delta 1 \leq 0.1\%$, $\Delta 12 \leq 30$ s

**Dimension: 480mm×500mm×1458mm**

**Sampling Modes:** Time-proportional sampling; specific time sampling; switch control sampling; dynamic control sampling; flow-proportional sampling; flow trigger sampling

**Sample Supply Modes:** Time-proportional supply; direct sampling supply; specific time supply; switch control supply; dynamic control supply

**Sample Retention Modes:** Analog signal identification retention; switch signal trigger retention; dynamic control retention; direct sampling retention; synchronized supply retention