

Fast-01

Aqualog A-TEEM Autosampler Accessory

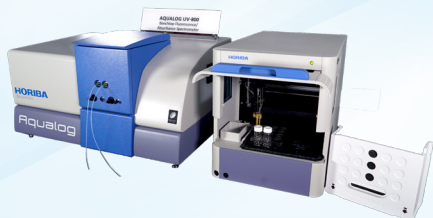
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For batch measurements in industrial QA/QC settings

Introducing the NEW Fast-01 Autosampler accessory for batch measurements in many A-TEEM applications

A-TEEM Molecular Fingerprinting is a new optical technique that is ideal for comprehensive component analysis in



Aqualog A-TEEM Spectrometer with FAST-01 Autosampler

a variety of QC/QA applications, from water to wine to pharmaceuticals and beyond. It is a simple, fast, "column free" spectroscopic technique that simultaneously



measures the absorbance, transmission and fluorescence of samples in solution and offers some unique benefits over traditional analytical

techniques such as chromatography, mass spec IR and more. Learn more at www.a-teem.com.

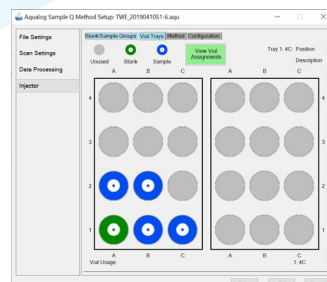
By connecting the new Fast-01 autosampler accessory to the HORIBA Aqualog® A-TEEM spectrometer it can greatly facilitate your routine batch liquid analysis.

The Fast-01 can be configured with either 10 ml vials (up to 24 of them) or 2 ml vials (up to 96 of them) to meet your application needs and features complete temperature control. Fluorescence is highly sensitive to temperature fluctuations, so clamping the temperature is critical for precise A-TEEM molecular fingerprinting.

Sample vial repeats and injection volumes are easily facilitated with the Aqualog 4.2+ software, which also offers preconfigured blank files.

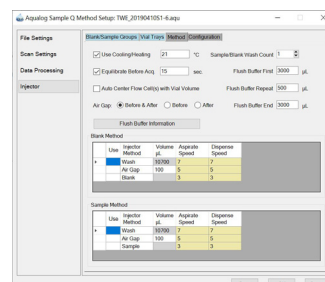
All data files can be exported with ISO-formatted time-date stamping and user-configurable Sample ID and repeat codes.

All aspects of the Fast-01 hardware control are at your fingertips, within the Aqualog software, with key real-time access features to facilitate the configuration and execution of your batch experiments, as well as priming, cleaning and maintenance.



Vial/Well Selection

The Method Setup section of the Aqualog Sample Q software allows the user to establish which vials are Sample, Blank or unused. This configuration shows the display for the two available trays of 12 each, of the 10 ml vials.



Experimental Method

The Method Setup section of the Aqualog Sample Q software allows the user to enable temperature control, temperature equilibration, wash counts and flushing parameters.

Key Features and Benefits:

- Speed, accuracy and precision
- Sample vial temperature control
- Plug and play temperature-controlled flow-cell sample compartment
- Excellent repeatability and negligible carryover between samples
- Fully integrated into Aqualog v4.2+ software

Fast-01 Specifications

Parameter	Specification
Vial Temperature Range	4° to 40° C (Peltier-controlled)
Vial Racks/Plates	Please select with your order: Option 1: 10 ml vials in 1 or 2 trays of 12 vials (up to 24 vials total) Option 2: 2 ml vials in 1 or 2 trays of 48 vials (up to 96 vials total)
Vials	10 ml septum screw cap
Injection Syringe	2.5 ml standard
Valve	Valco 0.75 bore valve
Sample Injection Loop	10 mL SS sample loop, 1/8" tubing with 1/16" tubing ends and fittings (Valco): (for 10 ml vials)
Vial dimensions (incl. cap)	Maximum vial height: 47 mm (incl. septa or capmat) Minimum vial height: 32 mm
Reproducibility	RSD ≤ 1.0% for partial loopfill injections
Wash	Programmable: Wash between injections and wash between vials
Air Gap	Adjustable volume; Before and/or after samples
Hardware	Specification
Operating Voltage	95 - 240 Volt AC ± 10%; 50 - 60 Hz; 200VA
Electrical	Standard 110V, Optional 220V (HORIBA PN 5500000264)
CE Compliance	Yes
Communication	Serial RS232 with USB Adapter
Optional Circulating Temperature Bath (Not included, but recommended for all A-TEEM work. HORIBA PN: 5500450520)	-25° C to +80° C (110 V)
Size	300 mm x 575 mm x 360 mm
Weight	21 kg
Working Temperature	10 - 40° C (indoor use only)
Related Aqualog Hardware & Software	Specification
Flow Cell Sample Compartment	Water jacketed flow cell
Flow Cell	80 µL (1 x 0.5 cm path length)
Software	Aqualog v4.2 and beyond

Aqualog Datastream Dashboard is powered by Solo Predictor software from Eigenvektor Research, Incorporated

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To learn more about the A-TEEM molecular fingerprinting technique, applications and uses of this autosampler, refer also to www.A-TEEM.com

www.aqualog.com

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