PORTABLE DEUTERIUM OXIDE SAMPLER

Model ~ D₂O-STA & D₂O-FTA

FEATURES:

- PORTABLE
- DETECTS DEUTERIUM OXIDE IN WATER
- INFRARED SPECTROMETRY
- ATTENUATED TOTAL REFLECTANCE (ATR)
- TOUCH PANEL DISPLAY
- D2O-STA with TA SPECIFIC SOFTWARE
- AC POWER WITH RECHARGEABLE BATTERY BACK UP
- QUICK-SNAP SAMPLING MODULE
- 10 YEAR LASER WARRANTY
- SMALL AND LIGHTWEIGHT
- COMPUTER INTERFACE
- OPTIONAL FLOW THROUGH FEATURE D2O-FTA



D₂O-S-TA SAMPLER WITH DISPLAY

APPLICATION:

Water. Liquid, or Gas sampler for Deuterium Oxide concentration. Use in a lab, NPP, glovebox, fume hood, etc. Model D₂O-STA has a 10 year-warranty on defects on parts or laser.

DESCRIPTION:

- Easy setup.
- No sample preparation required.
- Measures quantity of regular water mixed with heavy water (Deuterium Oxide).
- Small size allows positioning inside glove box or fume hood.

Technical Associates provides and supports a portfolio of fully integrated solutions for accurate analysis of liquid gas and solid substances including the optimal analytical FT-IR technology to identify, measure, categorize substances in many applications such as R&D, QC and process control.

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FT-IR spectrometers offer many advantages over other analysis techniques. Most importantly, a drastic reduction of the time needed for data acquisition, component specificity and sensitivity.

TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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SPECIFICATIONS:

•	Detector:	High sensitivity temperature-controlled DLaTGS detector. (Deuterated lanthanum triglycine sulfate).
•	QuickSnap TM	Easy sampling module: Platinum-ATR: Single reflection ATR with monolithic diamond, soldered in tungsten carbide hard metal for highest mechanical and chemical robustness; optional heating function.
•	Life Time:	>10 years
•	Optics:	Sealed and desiccated; Mirrors: Gold coated for highest efficiency
		in the Mid-IR spectral range; KBr windows and beamsplitter;
		Optics with ZnSe beamsplitter and ZnSe windows
		Option "High Humidity"
•	Calibration Laser:	Diode laser with high wavenumber accuracy and precision
•	Life Time:	>10 years) and low power consumption.
•	Wavenumber precision:	Repeatability <0.0005 cm ⁻¹ @ 2,000 cm ⁻¹
		(standard deviation of 10 repeated measurements)
•	Wavenumber accuracy:	<0.05 cm ⁻¹ @ 2,000 cm ⁻¹
•	Photometric Accuracy:	Better than 0.1% T
•	Spectral Range:	350 – 8,000 cm ⁻¹ , with standard KBr beam splitter
		500 – 6,000 cm ⁻¹ , option: "High Humidity" ZnSe optics
•	Spectral resolution:	Better than 2 cm ⁻¹ , optional better than 0.75 cm ⁻¹
		free adjustable resolution from 0.75 cm ⁻¹ to 256 cm ⁻¹
•	Measurement Time:	1 min, spectral resolution 4 cm ⁻¹
•	Measurement Ratio:	D ₂ O – H ₂ O – any ratio up to 100%
		Optional: H_3 in D_2O – any ratio up to 100%
•	Power Requirements:	Standard rechargeable batteries. Optional AC
•	Computer interface:	Integrated touch panel pc (option), remote control via WLAN (option , e.g. for use in glove box)
•	Operating system:	Windows 7, Windows 10
•	Dimensions:	D ₂ O-STA - approx. 8.2 in x 13.4 in x 13.4 in (267 x 340 x 340 mm)
•	Weight:	Approx. 22lbs (10 kg)

OPTIONAL FLOW THROUGH FEATURE



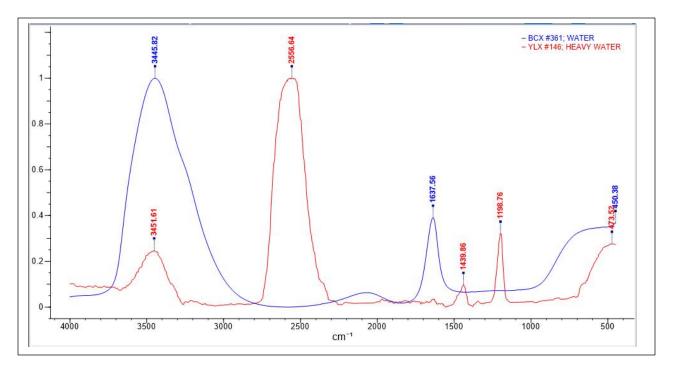






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DEUTERIUM OXIDE GRAPH EXAMPLE

