HYDROBABY / MFA H_2O

The new handheld HYDROBABY is the smallest, lightest and most price competitive in portable instruments for low dewpoint measurement capability on the market today.

The newly designed analysers offer many advantages over older technologies with a larger signal response small change of low water vapor concentrations resulting in greater measurement range -110 °C to +20 °C dewpoint.

The greater speed of measurement, improved reproducibility, sensitivity to ambient temperatures, higher reliability and accuracy with greater cost effectiveness make the instruments a technological leader.

The Laboratory and Process Control applications for the moisture analysers meet the needs of a wide range of industries: petrochemical, power generation, medical, pharmaceutical, biotechnology, non-fossil fuels, and industrial gases and environmental.

The measurements are temperature and pressure compensated with built-in sensors (optional).
All analysers are provided with traceable calibrations.

HYDROBABY

MFA H_2O

Benefits

- fast response time
- state-of-the-art sensor technology
- -110 °C to +20 °C dewpoint
- easy navigation, large display
- cordless operation using rechargeable batteries
- data transfer and charge of batteries via USB port
- integrated data log of the dewpoint, temperature and pressure
- large illuminated graphic display
- model for higher inlet pressures with built-in metering valve and flow meter (MFA H_2O)
- HYDROBABY: for mobile measurement
- MFA H_2O: portable benchtop analyser

Complete inclusive

- USB-cable
- AC universal power adapter with USB connector
- hanging hook and magnet (HYDROBABY)
- exhaust pigtail (HYDROBABY)
- CD-ROM with:
  - software (demo-version)
  - operating instructions

Options

- passive analog output 4-20 mA (max. 30 V DC power supply by customer)
- data cable
- Software licence code for instant documentation
- pressure sensor with automatic dewpoint correction
- vacuum pump, built-in includes battery and external charger (MFA H_2O)

Other models, options and accessories available on request.

Product Information

MOISTURE ANALYSERS

Technical Data

HYDROBABY	MFA H_2O		
•	•	**Gases**	all technical gases (excluding toxic or corrosive gases) No mixtures of fuel gases with O_2 !
•	•	**Measuring principle**	nanopore
•	•	**Sensor lifetime**	unlimited
•	•	**Pressure Sensor (optional)**	0 – 10.34 bar (absolute)
•	•	**Measuring range**	-110 °C – +20 °C / -166 °F – +68 °F (dewpoint)
•	•	**Sample gas requirement**	>1 l/min
•	•	**Response time**	95% of step change in 3 min.
•	•	**Repeatability**	0.8 °C / 1.5 °F (dewpoint)
•	•	**Accuracy**	±2 °C (3.6 °F), temperature corrected (dewpoint)
•	•	**Units of measure**	°C and °F dewpoint, ppmV, ppmW, µB H_2O vapor pressure, grams of H_2O/m^3 and Lbs $H_2O/10^6$ standard cubic feet in Natural Gas
•	•	**Calibration**	simple one point calibration
•	•	**Data log**	circulating storage for last 4000 measurements
•	•		interface for transfer of logged data
•	•		assignment of measurements to different product names
•	•	**Communication**	USB-Port
•	•	**Software**	WITT-Software
•	•	**Multilingual**	German, English, French (more to follow)
•	•	**Temperature (gas/environment)**	-20 °C – +60 °C / -4 °F – +140 °F
•	•	**Connection**	1/8“ Swagelok®
•	•	**Display**	backlit
•	•	**Shut down**	automatic (individual adjustable)
•		**Housing**	shock resistant plastic
	•		extruded aluminium
•	•		IP65, IP68 with Sealing Cap
•		**Weight**	approx. 0.8 kg (without accessories)
	•		approx. 1.6 kg (without accessories)
•		**Dimensions (HxWxD)**	187 x 106 x 50 mm (7.36 x 4.17 x 1.97 inch)
	•		199 x 162 x 84 mm (7.83 x 6.38 x 3.31 inch)
•	•	**Power supply**	1 integrated rechargeable battery (charging device included)
•	•	**Charging device**	110-240 V AC, 50-60 Hz
•	•	**Approvals**	Company certified according to ISO 9001:2000, ISO 14001 and ISO 22000 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC