

# MOISTURE MEASUREMENT / DEW POINT ANALYSIS

## HYDROBABY and MFA H<sub>2</sub>O



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 up to +20 °C (-166 °F up to +68 °F) 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 measurement is temperature compensated with built-in sensors. Additionally a pressure compensated measurement is possible by an optional pressure sensor.

All analysers are provided with traceable calibrations.



HYDROBABY



MFA H<sub>2</sub>O

### Benefits

- fast response time
- state-of-the-art sensor technology
- -110 °C up to +20 °C (-166 °F up to +68 °F) 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<sub>2</sub>O)
- HYDROBABY: for mobile measurement
- MFA H<sub>2</sub>O: 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<sub>2</sub>O)

Other models, options and accessories available on request.

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## HYDROBABY and MFA H<sub>2</sub>O



HYDROBABY  
MFA H<sub>2</sub>O

• • <b>Gases</b>	all technical gases (excluding toxic or corrosive gases) No mixtures of fuel gases with O <sub>2</sub> !
• • <b>Measuring principle</b>	nanopore
• • <b>Sensor lifetime (moisture sensor)</b>	approx. 10 years
• • <b>Pressure Sensor (optional)</b>	0 – 10.34 bar (absolute)
• • <b>Measuring range</b>	-110 °C – +20 °C / -166 °F – +68 °F (dewpoint)
• • <b>Sample gas requirement</b>	>1 l/min
• • <b>Response time</b>	95% of step change in 3 min.
• • <b>Repeatability</b>	0.8 °C / 1.5 °F (dewpoint)
• • <b>Accuracy</b>	±2 °C (3.6 °F), temperature corrected (dewpoint)
• • <b>Units of measure</b>	°C and °F dewpoint, ppmV, ppmW, µB H <sub>2</sub> O vapor pressure, grams of H <sub>2</sub> O/m <sup>3</sup> and Lbs H <sub>2</sub> O/10 <sup>6</sup> standard cubic feet in Natural Gas
• • <b>Calibration</b>	simple one point calibration
• • <b>Data log</b>	circulating storage for last 4000 measurements interface for transfer of logged data assignment of measurements to different product names
• • <b>Communication</b>	USB-Port
• • <b>Software</b>	WITT-Software
• • <b>Multilingual</b>	German, English, French (more to follow)
• • <b>Temperature (gas/environment)</b>	-20 °C – +60 °C / -4 °F – +140 °F
• • <b>Connection</b>	1/8" Swagelok®
• • <b>Display</b>	backlit
• • <b>Shut down</b>	automatic (individual adjustable)
• • <b>Housing</b>	shock resistant plastic extruded aluminium IP65, IP68 with Sealing Cap
• • <b>Weight</b>	approx. 0.8 kg (without accessories) approx. 1.6 kg (without accessories)
• • <b>Dimensions (HxWxD)</b>	187 x 106 x 50 mm (7.36 x 4.17 x 1.97 inches) 199 x 162 x 84 mm (7.83 x 6.38 x 3.31 inches)
• • <b>Power supply</b>	1 integrated rechargeable battery (charging device included)
• • <b>Charging device</b>	110-240 V AC, 50-60 Hz
• • <b>Approvals</b>	Company certified according to ISO 9001 and ISO 22000 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU