

MOISTURE MEASUREMENT / DEW POINT ANALYSIS

HYDROBABY and MFA H₂O



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

The newly designed analysers offer many advantages over older technologies, exhibiting an improved responsiveness particularly when used in an environment with low water vapour concentration, resulting in a greater measurement range from a -110 °C (-166 °F) up to a +20 °C (+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.

Benefits

- fast response time
- state-of-the-art sensor technology
- -110 °C up to +20 °C (-166 °F up to +68 °F) dew point
- easy navigation, large display
- cordless operation using rechargeable batteries
- data transfer and charge of batteries via USB port
- integrated data log of the dew point, temperature and pressure
- large illuminated graphic display
- model for higher inlet pressures with built-in metering valve and flow meter (MFA H₂O)
- HYDROBABY: for mobile measurement
- MFA H₂O: 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



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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 dew point correction
- vacuum pump, built-in includes battery and external charger (MFA H₂O)

Other models, options and accessories available on request.

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HYDROBABY
MFA H₂O

• • Gases	all technical gases (excluding toxic or corrosive gases) No mixtures of fuel gases with O ₂ !
• • Measuring principle	nanopore
• • Sensor lifetime (moisture sensor)	approx. 10 years
• • Pressure Sensor (optional)	0 – 10.34 bar (absolute)
• • Measuring range	-110 °C – +20 °C / -166 °F – +68 °F (dew point)
• • Sample gas requirement	>1 l/min
• • Response time	95% of step change in 3 min.
• • Repeatability	0.8 °C / 1.5 °F (dew point)
• • Accuracy	±2 °C (3.6 °F), temperature corrected (dew point)
• • Units of measure	°C and °F dew point, ppmV, ppmW, µB H ₂ O vapor pressure, grams of H ₂ O/m ³ and Lbs H ₂ O/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 inches) 199 x 162 x 84 mm (7.83 x 6.38 x 3.31 inches)
• • 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 and ISO 22000 CE-marked according to: - EMC 2014/30/EU