MDM300 & MDM300 I.S.

Advanced Dew-Point Hygrometer

A high-speed portable dew-point hygrometer, offering rapid spot-check measurements of dew point or moisture content in many applications, including compressed air, natural gas and high-voltage switchgear quench gas. This lightweight, ATEX, IECEx, FM, CSA, GOST, and INMETRO certified product allows more measurements per working hour than any other comparable product. A hard-wearing but ergonomic case and an easy-to-use interface allows comfortable and practical operation in the toughest industrial environments.



Highlights

- Repeatedly fast measurements at low pressure from less than 15 minutes for T95 to -60°C (-76°F)
- Higher pressure measurements possible up to 350 barg (5076 psig)
- Long battery life: up to 48 hours of typical use between charges
- Intuitive application kits allow quick and straightforward connection to your sample point
- Durable, yet easy to handle and operate: designed for use in industrial environments
- Lightweight: less than 1.5kg (3.3lb)
- 13-point traceable calibration certificate

Applications

- Dew point in natural gas processing and pipelines
- Monitoring of desiccant dryers for compressed air or plastic moulding equipment
- Moisture measurement in high-voltage switchgear quench gas
- Moisture measurement in petrochemical refineries
- Industrial gas production and transportation
- · Medical gas quality
- Dew-point measurement in metallurgical applications





MDM300 & MDM300 I.S.

The Reliable Spot Checking Portable

Ideal for spot checks of dew point or moisture content, the MDM300 & MDM300 I.S. include all the features needed for efficient work. An extremely fast response and accurate, stable measurement are complemented by an instrument which is easy to use, has data-logging and built in sampling components as standard. The instrument can be supplied with a range of accessories including sampling systems and a professional carry case. For use in hazardous areas, the MDM300 I.S. has ATEX certification to $\langle\!\langle x\rangle\rangle$ II 1 G Ex ia IIC T4 Tamb -20°C...+50°C (-20°F...+122°F); QPS, IECEx, GOST-R, GOST-K and INMETRO standards. The MDM300 and MDM300 I.S. are both IP66/NEMA 4 rated, and therefore suitable for demanding outdoor applications.

Measurement Range

The MDM300 series can provide measurement to -60°C (-76°F) dew point in gases at atmospheric pressure in less than 15 minutes (30 minutes to -60°C/-76°F dew point for MDM300 I.S.). This, combined with no required waiting time between measurements, allows the user to take many readings per day, increasing efficiency and reducing costs when compared to other instruments on the market.

Easy of Use

The rugged but ergonomic design of the MDM300 series combines industrial durability with comfortable one or two-handed operation. The intuitive menu system and large, easy-to-press buttons enable the user to easily configure the instrument to display the parameters they require, even with gloved hands.

Measurement Performance

Best-in-class accuracy of 1°C (1.8°F) dew point (-60...+20°C/-76...+68°Fdp) gives the user improved measurements. Every instrument undergoes a 13-point calibration over a period of 10 days and all calibration certificates are traceable to national standards via the NPL (UK) and NIST (USA).

In addition, the MDM300 series can be used to check and recalibrate Michell Easidew dew-point transmitters, affording the user the benefit of a verification without the associated downtime.

Sampling Solutions

The MDM300 series offers versatile sampling arrangements ranging from simple fixed orifices for low pressure measurement to configurable high-pressure sampling systems up to 350 barg (5076 psig). A number of application kits are available providing out-of-the-box sampling systems specifically for the most popular applications. Please contact Michell Instruments for further details.

Hazardous certifications

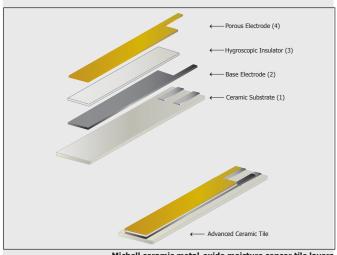
The MDM300 I.S. has been certified by ATEX & IECEx, FM, CSA, and GOST for use in hazardous areas. This is the perfect portable instrument for use in natural gas plants, petrochemical refineries, offshore platforms and a range of other hazardous areas.



Sensing Technology

The MDM300 uses Michell's highly developed ceramic metaloxide moisture sensor, which is constructed using state-of-the-art thin and thick film techniques. Operation of the sensor depends upon the adsorption of water vapor into a porous non-conducting 'sandwich' between two conductive layers built on top of a base ceramic substrate. The active sensor layer is very thin – less than one micron and the porous upper layer that allows transmission of water vapor into the sensor is less than one nano-metre.

The resulting sensor responds rapidly to changes in moisture – both in measuring humidity and also when being dried. It is very rugged and gives 1°C dew-point accuracy coupled with excellent long-term reliability and stability.



Michell ceramic metal-oxide moisture sensor tile layers

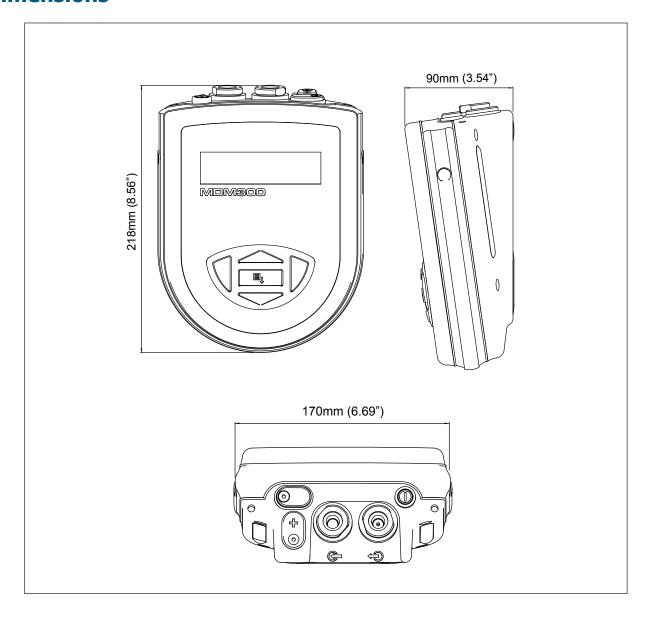
Technical Specifications

Measurement technology	Product	MDM300	MDM300 I.S.
Accuracy \$\frac{\text{2.15°C}(\text{1.36°F}) from -\text{50} to \text{-26°F} \text{50} \text{ for your point} \\ \$\frac{\text{2.7°C}(\text{4.3.6°F}) \text{ for m-100 to -\text{60°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\frac{\text{2.7°C}(\text{4.3.6°F}) \text{ for m-100 to -\text{60°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\text{0.160 to -100 to -100°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-148 to -76°F}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-148 to -100°C}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-148 to -100°C}) \text{ dev point} \\ \$\text{0.160 to -100°C}(\text{-160°C}) \\ \$\text{0.160 to -100°C}(\text{-160°C}) \\ \$\text{0.160 to -100°C}(\text{-160°C}) \\ \$\text{0.160 to -100°C}(\text	Performance		
\$\frac{\text{\$\text{\$\chickness}}{\$\text{\$\		Michell ceramic metal-oxide moisture sensor	
Spot checks: -70+20°C (-494+68°F) dev point -700+10°C (-494+68°F) dev point -700+10°C (-494+68°F) dev point -700+10°C (-494+80°F) dev point -700+10°C (-468+80°F) desp point -700+10°C (-468+10°C (-468	Accuracy	±2°C (±3.6°F) from -100 to -60°C (-148 to -76°F) dew point	
Measurement units °C, °F, K dew point & gas temperature ppm, ppm, for air, Ni, Hi, CO, SFs, 90 NR, gim, 20, SFs, 90	Spot checks:		
Resolution (display) Resolution (display) Resolution (display) Resolution (display) Resolution (measurement) Resolution (measurement) Resolution (measurement) Typical response speed T95 in \$15 minutes to -60°C (-76°F) dew point Typical response speed T95 in \$15 minutes to -60°C (-76°F) dew point Typical response speed T95 in \$15 minutes to -60°C (-76°F) dew point Typical response speed NIMH 4.8V Battery operating Life Up to 48 hours of typical usage between charges Battery charger Intelligent charger (supplied) Deprating Conditions Operating Conditions Operating pressure 350 barg (5076 psig) max Operating environment Outdoors 0+100% nh condensing Operating temperature Poperating temperature Departing temperature Poperating temperatur	Uncalibrated readings from	+20+30°C (+68+86°F) dew point	
Resolution (measurement) Typical response speed Typical usage between charges Typical usage typical usage between charges Typical usage typical usage between charges Typical usage typical usage typical usage between charges Typical usage typic	Measurement units	for air, N ₂ , H ₂ , CO ₂ , SF ₆	ppm _W & g/kg for air, N_2 , H_2 , CO_2 , SF_6 ppm _W , lb/mmscf & g/m ³ for natural gas
Typical response speed Electrical Input/Output Battery type Millst 4.8V Battery operating Life Battery charger Intelligent charger (supplied) Departing Conditions Operating empironment Operating empironment Operating semperature Typical speed (4+122*F) Storage/transport temperature Mechanical Specifications Display Enclosure type Battery data and in a semination of the storage of the stor	Resolution (display)	0.1 for all dew-point derived units and autoranging where appropriate	
Electrical Input/Output Battery type Battery type Battery operating Life Up to 48 hours of typical usage between charges Intelligent charger (supplied) Intelligent charger (supplied) Deparating Conditions Operating Pressure Operating pressure Operating temperature Operating temperature Operating Storage/transport temperature Mechanical Specifications Display Blue LCD graphical display Blue LCD graphical display Blue LCD graphical display Flow Across sensor Ogerating Storage (New York) Steel fiber-loaded high-impact polyamide 6 1/8" NPT female (other options available) Flow across sensor Outline dimensions AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions Outline dimensio	Resolution (measurement)	Better than 0.1°C (0.18°F) dew point	
Battery type Battery operating Life Battery operating Life Battery operating Life Battery charger Intelligent charger (supplied) Deparating Conditions Operating Conditions Operating pressure Operating emvironment Outdoors 0+1000% rh condensing Operating temperature Deparating Expecifications Display Bubut CD graphical display Enclosure type Brownessers Oscionections Display Enclosure type Steel fiber-loaded high-impact polyamide 6 IP/NEMA rating Brownessers Outline dimensions AISI 316L stainless steel. PTFE Seal, Borosilicate glass, ceramic Outline dimensions Display Bubut CD graphical display Enclosure type Steel fiber-loaded high-impact polyamide 6 IP/NEMA rating Brownessersor Outline dimensions AISI 316L stainless steel. PTFE Seal, Borosilicate glass, ceramic Outline dimensions Display Brownessersor Outline dimensions AISI 316L stainless steel. PTFE Seal, Borosilicate glass, ceramic Outline dimensions Ceneral Data logging B megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications Certification Codes CE ATEX: II I G Ex is IIC T4 Ga (-20°C+50°C) INMETRO: Ex is IIC T4 Ga (-20°C+50°C)	Typical response speed	T95 in ≤15 minutes to -60°C (-76°F) dew point	T95 in ≤30 minutes to -60°C (-76°F) dew point
Battery operating Life Battery charger Intelligent charger (supplied) Departing Conditions Operating Pressure Operating empirionment Outdoors 0+100% rh condensing Operating temperature Departing temperature Operating Specifications Display Enclosure type Steel fiber-loaded high-impact polysmide 6 IP/NEMA rating Gas connections 1/8" NPT female (other options available) Flow across sensor Outline dimensions 218mm x 170mm x 90mm (8.58" x 6.69" x 3.54") (d x w x h) Weight Communications Ce ATEX: II I GE kis III CT 4Ga (-20"C+50"C) INMETRO: Exis III CT 4Ga (-20"C+50"C) INMETRO:	Electrical Input/Output		
Intelligent charger (supplied) Intelligent charger (charger not certified for hazardous area use)	Battery type	NiMH	I 4.8V
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Operating pressure Operating environment Outdoors 0+100% rh condensing Operating temperature -20+50°C (-4+122°F) Storage/transport temperature -20+50°C (-4+122°F) Mechanical Specifications Display Blue LCD graphical display Blue LCD graphical display Enclosure type Steel fiber-loaded high-impact polyamide 6 IP/NEMA rating IP66/NEMA 4 Gas connections I/8" NPT female (other options available) Flow across sensor 0.21.2 Nl/min 0.20.5 Nl/min Gas wetted materials AISI 316L stainless steel AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions 218mm x 170mm x 90mm (8.58" x 6.69" x 3.54") (d x w x h) Weight 1.35kg (2.98lb) 1.5kg (3.3lb) General Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C)	Battery charger	Intelligent charger (supplied)	
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Operating temperature -20+50°C (-4+122°F) Storage/transport temperature Mechanical Specifications Display Blue LCD graphical display Enclosure type Steel fiber-loaded high-impact polyamide 6 IP/NEMA rating IP66/NEMA 4 Gas connections Flow across sensor 0.21.2 Nl/min O.20.5 Nl/min Gas wetted materials AISI 316L stainless steel AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions 218mm x 170mm x 90mm (8.58" x 6.69" x 3.54") (d x w x h) Weight 1.35kg (2.98lb) 1.5kg (3.3lb) General Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) INMERIO: Ex ia IIC T4 Ga (-20°C+50°C) INMERIO: Ex ia IIC T4 Ga (-20°C+50°C) INMERIO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C)	Operating pressure	350 barg (5076 psig) max	
Storage/transport temperature -20+50°C (-4+122°F) Mechanical Specifications Display Blue LCD graphical display Enclosure type Steel fiber-loaded high-impact polyamide 6 IP/NEMA rating Gas connections Flow across sensor 0.21.2 Nl/min AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions AISI 316L stainless steel AISI 316L stainless steel, PTFE Seal, Borosilicate glass, ceramic Outline dimensions 218mm x 170mm x 90mm (8.58" x 6.69" x 3.54") (d x w x h) Weight 1.35kg (2.98lb) 1.5kg (3.3lb) General Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC 74 Ga (-20°C+50°C) IRCEX:: Ex ia IIC 74 Ga (-20°C+50°C) IRCEX:: Ex ia IIC 74 Ga (-20°C+50°C) IRCEX:: Ex ia IIC 74 Ga (-20°C+50°C) IRCU Ex: 0Ex ia IIC 74 Ga (-20°C+50°C)	Operating environment	Outdoors 0+100% rh condensing	
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Weight 1.35kg (2.98lb) 1.5kg (3.3lb) General Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth TM range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEX: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) IR CU Ex: 0Ex ia IIC T4 Ga CQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	Gas wetted materials	AISI 316L stainless steel	· · · · · · · · · · · · · · · · · · ·
General Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga TR CU Ex: 0Ex ia IIC T4 Ga CQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	Outline dimensions	218mm x 170mm x 90mm (8.58" x 6.69" x 3.54") (d x w x h)	
Data logging 8 megabytes; Log interval: 5 to 60 sec; Logs per log file: Up to 10,000 Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga (-20°C+50°C+50°C)	Weight	1.35kg (2.98lb)	1.5kg (3.3lb)
Communications (Wireless) Bluetooth™ range up to 5m (version 2.0) User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C)	General		
User interface languages English, French, German, Italian, Portuguese, Spanish Certification Codes CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: OEx ia IIC T4 Ga cQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	Data logging		
CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga CQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	Communications	(Wireless) Bluetooth™ range up to 5m (version 2.0)	
CE ATEX: II 1G Ex ia IIC T4 Ga (-20°C+50°C) IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: OEx ia IIC T4 Ga cQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	User interface languages	English, French, German, Italian, Portuguese, Spanish	
IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga cQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4	Certification Codes		
		CE	IECEx: Ex ia IIC T4 Ga (-20°C+50°C) INMETRO: Ex ia IIC T4 Ga (-20°C+50°C) TR CU Ex: 0Ex ia IIC T4 Ga cQPSus: Class I, Division 1, Groups A B C D, T4 Class I, ZONE 1, AEx/Ex ia IIC Ga T4

^{*} The end user has a responsibility to ensure that when installed in the Hazardous Area, the system is compliant with relevant local and international installation Standards for the use of equipment in explosive atmospheres.



Dimensions



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