MMS® Inspection DPM

Monitoring climatic ambient conditions

- Dew Point
- Surface Temperature
- Air Temperature
- Relative Humidity

- Easy and convenient operation
- Compact and robust case

Scale 1:1

MMS® Inspection DPM

Description

	The gage models MMS Inspection DPM measure all relevant climatic variables such as relative humidity, air and surface temperature and determine dew point and the temperature difference between dew point and surface temperature from these variables. All these variables may be monitored as well as continuously logged by means of the Log function.
Gage properties	• Ideal for onsite applications due to the compact size, the light weight and the robust and durable instrument design • All measurement sensors (humidity, air, surface temperature) are integrated in the gage, for single-handed operation • Additional temperature sensor can be connected to the gage, e. g., sensor with magnetic support for continuous measurement of surface temperature • IP65, dust-tight and water repellant and resistant • Intuitive operation of the menu navigation and graphic display • The measurement presentation flips automatically and thus allows optimum reading in different measuring positions • Different languages selectable

Application

Example	Monitoring of the climate ambient conditions, which are required for surface varnishing

Variants

	Start	High
	Entry level gage with small data memory for max. 10,000 measured values in one batch and USB interface for data transfer	High-end gage with large data memory for 250,000 measured values in 2500 batches, USB interface, Bluetooth and WiFi for data transfer

Metrological Standard Functions | Measurement Tasks

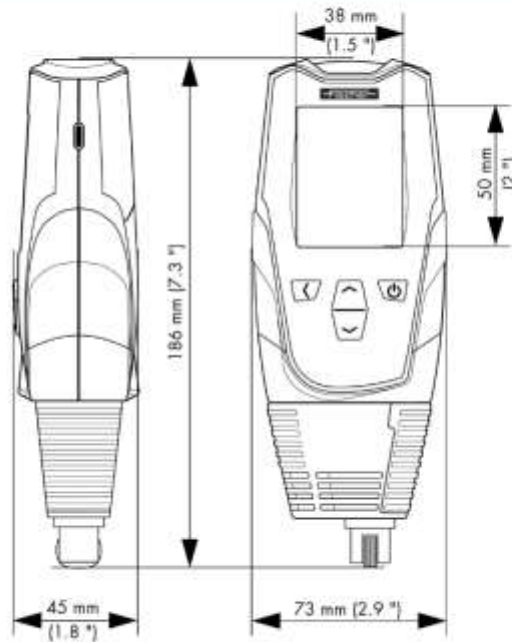| Metrological Standard Functions	Measurement Tasks
Batch	File containing all metrological function settings necessary for the measurement task as well as the measured values and evaluations.
Chart limits	Scaling of Y chart axis; Adjustable axis values for the variables relative humidity (RH), air temperature (Ta), surface temperature (Ts), dew point (Td) and Ts-Td
Alarm mode	Adjustable alarm limit values, for the variables relative humidity (RH), air temperature (Ta), surface temperature (Ts), dew point (Td) and Ts-Td
Log function	Automatic data logging according to the given time interval
Hold function	Freezing the present displayed values
Measurement value capture/displaying	Continuous measurement capture and displaying
Measurement value storage	• Automatically according to the given time interval, by means of the Log function • Manually by using the Hold function; you can store the values shown in the frozen display
Measurement units	°C/°F selectable, %RH
Resolution of measurement value	Low (up to 1 decimal place), Medium (up to 2 decimal places), High (up to 3 decimal places)

General Features

Data memory	The contents of the memory is retained even without batteries; subsequent viewing of the measured individual values and evaluations
	• Gage variant Start with memory capacity of max. 10,000 measured values in 1 batch
	• Gage variant High with memory capacity of 250,000 measured values in 2500 batches
Evaluation	*Statistics* Display of mean value, min/ max values, number of stored values, date and time for each variable relative humidity (RH), air temperature (Ta), surface temperature (Ts), dew point (Td) and Ts-Td *Graphic Presentation* Chart, showing the progress of stored readings of each climatic variable
Display of alarm	Limit violation: Audible by 2 short beeps, visual by red illuminated LED and by gage vibration
Languages	German and English
Presettings for batches Only available in gage variant High	Each new batch is created with a preset measurement unit and resolution for the displayed measured value. You can adapt these presettings to your requirements. However, you can also change the unit of measurement and the resolution for the measured value display at any time in the batch that has already been created.
Display	• Graphic display with automatic flipping measuring presentation view (deactivatable) to read measurement results in many different gage positions • Setting of brightness and contrast (definable for Office, Sunlight and Night)
Data transfer	Single values • USB: Data transfer to PC, Data import to MSExcel via PC-Datex software; You can gratis download the PC-Datex program from Fischer-Homepage • Bluetooth/WiFi: Data transfer to App PHASCOPE® PAINT; Creation and export of reports via App; You can gratis download the App from Google Play Store and Apple App Store
USB port	2.0 Type C • For service purpose • For connection to PC for data transfer, max. cable length: 3 m (118 inches)

Wireless interface Only available in gage variant High	Bluetooth	WiFi
	Bluetooth module integrated in gage, Bluetooth v2.1 + EDR, class 2	WiFi module integrated in gage, Standards IEEE 802.11b/g/n

Temperature connector	Type K, to connect an external type K temperature sensor, e.g., magnetic surface temperature sensor (606-036)
Admissible ambient temperature range during operation	0 ... +60 °C (+32 ...+140 °F)
Protection type	IP65
Weight (incl. Batteries)	ca. 259 g (0.57 lb.)
Power supply	• 2 batteries: Mignon, Alkaline or Lithium, LR6 - AA, 1.5 V • 2 rechargeable batteries: Mignon, NiMH, HR6 - AA
Battery life Specifications valid for +20 °C (+68 °F) ambient temperature and Alkaline batteries used	> 8 h for continuous measuring, brightness set to sunlight and deactivated wireless interface

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MMS® Inspection DPM

Dimensions

Gage

Metrological Spezifications	Air Temperature (Ta)	Surface Temperature (Ts)	Relative Humidity (RH)
Measurement range	-20 ... +60 °C (-4 ... +140 °F)	-20 ... +80 °C (-4 ... +176 °F)	0 ... 100 %RH
Trueness	20 ... 50 °C: ± 0.1 °C (68 ... 122 °F: ± 32.2 °F)	± 0.5 °C (± 32.9 °F)	± 1.5 %RH
Resolution	0.01 °C (32.02 °F)	0.1 °C (32.18 °F)	0.01 %RH

External Magnetic Surface Temperature Sensor Type K (606-036) - Accessory

Sensor type	K
Measurement range	-40 ... +200 °C (-40 ... +392 °F)
Trueness	± 2 °C (±35.60 °F)
Resolution	0.1 °C (32.18 °F)
Diameter of magnetic support	26 mm (1.02 ")

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Scope of Supply

Gage; lanyard; 2 batteries; USB cable type C to type A (1 m (39.4 inches)); guideline

Order Information

MMS Inspection DPM

Gage

Variant	Order no.	Interface	Memory capacity
Start	606-032	USB	max. 10,000 measured values in 1 batch
High	606-033	USB + BT + WiFi	250,000 measured values in 2500 batches

Accessory for MMS Inspection DPM

Product	Order no.	Description
Surface temperature sensor	606-036	Magnetic surface temperature sensor, type K, self-adhesive on ferrous materials, cable length: 2 m (78.74 "), connection plug type K