

## OPTIDEW 401

A precision chilled mirror hygrometer with a wide operating temperature range. A combination of high accuracy, with a durable dew-point sensor, PRT, 4-20mA output plus SD Card, and USB and RS485 communications as standard.

<b>Product Parent Code: OPT401 Dew-Point Hygrometer (Bench Top)</b>		
<b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}</b>		
Feature	Item	Description
Feature {A}	<b>Base Model</b>	
	OPT401	Dew-Point Hygrometer (Bench Top)
Feature {B}	<b>Case</b>	
	GP5	Bench Top with Display
Feature {C}	<b>Sensor</b>	
	C1	POM Head, 1-Stage (-25 to 90°Cdp)
	C2	POM Head, 2-Stage (-40 to 90°Cdp)
	C3	Harsh Environment (PEEK) Head, 2-Stage (-40 to 120°Cdp)
Feature {D}	<b>Calibration</b>	
	D1	Standard Traceable DP Cal (4 calibration points)
	D2	UKAS / ISO17025 DP Cal (5 calibration points)
	D4	UKAS / ISO17025 RH Cal (5Pts @ one temperature)
Feature {E}	<b>Cables for Dew Point and Temperature</b>	
	E1	3m (Max 90°C) includes OPT2-PRT
	E2	5m (Max 90°C) includes OPT2-PRT
	E3	10m (Max 90°C) includes OPT2-PRT
	E4	20m (Max 90°C) includes OPT2-PRT
	E5	0.3m with local sensor mounting bracket includes OPT2-PRT
	E6	3m High temperature (max 120°C) includes OPT2-HTPRT
	E7	5m High temperature (max 120°C) includes OPT2-HTPRT
	E8	10m High temperature (max 120°C) includes OPT2-HTPRT
	E9	20m High temperature (max 120°C) includes OPT2-HTPRT
Feature {F}	<b>Additional Communications</b>	
	F5	RS485, USB & SD Card
	F6	RS485, Ethernet, USB & SD Card
Feature {G}	<b>Power Lead</b>	
	G1	UK
	G2	Europe/Brazil
	G3	USA
	G4	Australia
	G5	China
	G6	Japan
	G7	India
	G8	South Africa
	G9	Brazil
	G10	Israel

### Ordering Example

<b>OPT401+GP5+C3+D2+E1+F6+G3</b>	<b>Optidew 401 bench top chilled mirror hygrometer with display; PEEK sensor with 2-stage cooling; ISO17025 dew point calibration; 3m cables for dew point and temperature; RS485, Ethernet, USB &amp; SD Card communications; USA power lead</b>
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### OPTIDEW401 EXTENDED CALIBRATION OPTIONS

Order Codes	Product / Description
CM-DPAP01	Additional calibration points for UKAS/ISO17025 calibration
CM-RHAP01	Additional calibration points for % RH (at the same temperature)
CM-RHAT	UKAS % RH calibration of 5 points (at an additional temperature - Please contact Michell before ordering)

## OPTIDEW 501

A precision chilled mirror hygrometer with a wide operating temperature range. A combination of high accuracy, with a durable dew-point sensor, PRT, 4-20mA output and RS485 communication as standard.

<b>Product Parent Code: OPT501</b>		
<b>Dew-Point Hygrometer (Wall mount base unit, 1 alarm, 0/4-20mA x 2)</b>		
<b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}</b>		
Feature	Item	Description
Feature {A}	<b>Base Model</b>	
	OPT501	Dew-Point Hygrometer (Wall mount base unit, 1 alarm, 0/4-20mA x 2)
Feature {B}	<b>Case</b>	
	GP1	Wall Mount with Display
	GP2	Wall Mount with Display IP65 (restricted to RS485 comms. only)
	GP3	Wall Mount Transmitter
	GP4	Wall Mount Transmitter IP65 (restricted to RS485 comms. only)
Feature {C}	<b>Sensor</b>	
	C1	POM Head, 1-Stage (-25 to 90°Cdp)
	C2	POM Head, 2-Stage (-40 to 90°Cdp)
	C3	Harsh Environment (PEEK) Head, 2-Stage (-40 to 120°Cdp)
Feature {D}	<b>Calibration</b>	
	D1	Standard Traceable DP Cal (4 calibration points)
	D2	UKAS / ISO17025 DP Cal (5 calibration points)
	D4	UKAS / ISO17025 RH Cal (5Pts @ one temperature)
Feature {E}	<b>Cable</b>	
	E1	3m (Max 90°C) includes OPT2-PRT
	E2	5m (Max 90°C) includes OPT2-PRT
	E3	10m (Max 90°C) includes OPT2-PRT
	E4	20m (Max 90°C) includes OPT2-PRT
	E5	0.3m with local sensor mounting bracket includes OPT2-PRT
	E6	3m High temperature (max 120°C) includes OPT2-HTPRT
	E7	5m High temperature (max 120°C) includes OPT2-HTPRT
	E8	10m High temperature (max 120°C) includes OPT2-HTPRT
	E9	20m High temperature (max 120°C) includes OPT2-HTPRT
Feature {F}	<b>Digital Communications</b>	
	F1	RS485 (MUST be selected for IP65 models)
	F2	RS485 + Ethernet
	F3	RS485 + SD Card (Only with GP1 Case option)
	F4	RS485, Ethernet & SD card (Only with GP1 Case option)

### Ordering Example

<b>OPT501+GP2+C3+D2+E6+F1</b>	<b>Optidew 501 chilled mirror hygrometer, wall mounted with display in IP65 case, PEEK sensor with 2-stage cooling, ISO17025 dew point calibration, 3m high temperature sensor cables for dew point and temperature. RS485 + Ethernet communications.</b>
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### OPTIDEW501 EXTENDED CALIBRATION OPTIONS

Order Codes	Product / Description
CM-DPAP01	Additional calibration points for UKAS/ISO17025 calibration
CM-RHAP01	Additional calibration points for % RH (at the same temperature)
CM-RHAT	UKAS % RH calibration of 5 points (at an additional temperature - Please contact Michell before ordering)

## OPTIDEW401/501 ACCESSORIES AND SPARE PARTS

Order Codes	Product / Description
OPT2-SSB	Sensor sampling block (SS with 1/8" NPT in/out threaded gas ports)
OPT2-ACHS	Extended Heatsink
OPT2-GUARD	Sintered Aluminium Guard, Anodised with Inert PTFE coating
OPT2-SM	Dew-point and temperature probe mounting bracket
OPT2-CASE	OPT401 transport case
OPT2-CONNECTORS	6 & 8 Way Plugs for Outputs/Alarms
GEN-SD-CARD	8GB SD card
OPT2-DS	M36 bonded seal for the dew-point sensor
OPT-SLK	Sensor lock nut (to mount sensor to panel or bulkhead)
<b>Sensors</b>	
OPT2-STD-1	Dew Point Sensor – 1 stage (POM)
OPT2-STD-2	Dew Point Sensor – 2 stage (POM)
OPT2-HES-2	Dew Point Sensor – 2 stage harsh environment (PEEK)
OPT2-PS16	Pressure Transmitter 0 to 160kPa(A) (0-1.6 barA)
OPT2-PS25	Pressure Transmitter 0 to 2500kPa(G) (0-25 barG)
OPT2-PRT	Ambient Temperature Sensor Max (90°C)
OPT2-HTPRT	High temp version PRT (Max measured value 120°C, probe and 0.5M flying lead rated 250°C, connector rated 120°C)
<b>Cables</b>	
OPT2-DPSC-AM	Cable (Dew Point Sensor) – 0.3m
OPT2-DPSC-03	Cable (Dew Point Sensor) – 3m
OPT2-DPSC-05	Cable (Dew Point Sensor) – 5m
OPT2-DPSC-10	Cable (Dew Point Sensor) – 10m
OPT2-DPSC-20	Cable (Dew Point Sensor) – 20m
OPT2-ASC-AM	Cable (Ambient Temp Sensor OR pressure sensor) – 0.3m
OPT2-ASC-03	Cable (Temp Sensor OR pressure sensor) – 3m
OPT2-ASC-05	Cable (Temp Sensor OR pressure sensor) – 5m
OPT2-ASC-10	Cable (Temp Sensor OR pressure sensor) – 10m
OPT2-ASC-20	Cable (Temp Sensor OR pressure sensor) – 20m
OPT2-HTSC-03	High temperature cable (Dew Point Sensor) – 3m (Max 120°C)
OPT2-HTSC-05	High temperature cable (Dew Point Sensor) – 5m (Max 120°C)
OPT2-HTSC-10	High temperature cable (Dew Point Sensor) – 10m (Max 120°C)
OPT2-HTSC-20	High temperature cable (Dew Point Sensor) – 20m (Max 120°C)
OPT2-HTASC-03	High temperature cable (Temp Sensor OR pressure sensor) – 3m (Max 120°C)
OPT2-HTASC-05	High temperature cable (Temp Sensor OR pressure sensor) – 5m (Max 120°C)
OPT2-HTASC-10	High temperature cable (Temp Sensor OR pressure sensor) – 10m (Max 120°C)
OPT2-HTASC-20	High temperature cable (Temp Sensor OR pressure sensor) – 20m (Max 120°C)

**Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: Optidew401\_501\_97552\_V6\_UK\_0722**