

## OPTIDEW 501

**Optidew 501**  
**Chilled mirror hygrometer. A combination of high accuracy with a durable dew point sensor, PRT, 4-20mA outputs plus SD card, USB and RS485 communications as standard**

### Base Model

Optidew 501 Chilled mirror hygrometer. A combination of high accuracy with a durable dew point sensor, PRT, 4-20mA outputs plus SD card, USB and RS485 communications as standard

OPT501

### Case

Wall Mount with Display

A

Wall Mount with Display IP65 (restricted to RS485 comms. only)

B

Wall Mount Transmitter

C

Wall Mount Transmitter IP65 (restricted to RS485 comms. only)

D

### Sensor

POM Head, 1-Stage (-25 to 90°Cdp)

A

POM Head, 2-Stage (-40 to 90°Cdp)

B

Harsh Environment (PEEK) Head, 2-Stage (-40 to 120°Cdp)

C

### Calibration

Standard Traceable DP Cal (4 calibration points)

A

UKAS / ISO17025 DP Cal (5 calibration points)

B

UKAS / ISO17025 RH Cal (5Pts @ one temperature)

C

### Cables for Dew Point and Temperature

3m (Max 90°C) includes OPT2-PRT

A

5m (Max 90°C) includes OPT2-PRT

B

10m (Max 90°C) includes OPT2-PRT

C

20m (Max 90°C) includes OPT2-PRT

D

0.3m with local sensor mounting bracket includes OPT2-PRT

E

3m High temperature (max 120°C) includes OPT2-HTPRT

F

5m High temperature (max 120°C) includes OPT2-HTPRT

G

10m High temperature (max 120°C) includes OPT2-HTPRT

H

20m High temperature (max 120°C) includes OPT2-HTPRT

J

### Digital Communications

RS485 (MUST be selected for IP65 models)

A

RS485 + Ethernet

B

RS485 + SD Card (Only with Wall Mount with Display option)

C

RS485, Ethernet & SD card (Only with Wall Mount with Display option)

D

### Ordering Example

**OPT501-BCBFA**

**Optidew 501 Chilled mirror hygrometer. A combination of high accuracy with a durable dew point sensor, PRT, 4-20mA outputs plus SD card, USB and RS485 communications as standard**  
**Wall Mount with Display IP65 (restricted to RS485 comms. only)**  
**Harsh Environment (PEEK) Head, 2-Stage (-40 to 120°Cdp)**  
**UKAS / ISO17025 DP Cal (5 calibration points)**  
**3m High temperature (max 120°C) includes OPT2-HTPRT**

### Optidew 401 Services

CM-DPAP01

Additional calibration points for UKAS/ISO17025 calibration

Please note: Michell Instruments adopts a continuous development program which sometimes

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)
CM-CLN-KIT	Mirror cleaning materials (required for periodic cleaning of sensor mirrors - fluids not included)
<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\_V7\_UK\_0625**