

DCS60 DEW-POINT CALIBRATION SYSTEM

Additional charges for packing and carriage

Product Parent Code: PSD2
Dry Air Generation - Pressure Swing Dryer (-80°Cdp nominal)

Base Model

Pressure Swing Dryer	PSD-2-AC
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Product Parent Code: DG-2
Dew-Point Generator

Base Model

2 stage mixing manual, -75 to +20°Cdp	DG-2
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Power

90 to 120 V AC	110
220 to 260 V AC	240

Product Parent Code: ADG400
Dew-Point Generator

Base Model

Dew/frost point generator in the range -80 to +20 °Cdp. Volumetric mixing of wet and dry gases utilising mass flow controllers. Full-color touch-screen HMI. 11-point factory programmed dewpoint setpoint table from -80 to +20 °C at 10 °C intervals. 13-point user programmable dewpoint setpoint table with 3 programmable calibration profile.

ADG400

S8000 Chilled Mirror Hygrometer
-60 to +40°C dew point range with internal pressure sensor fitted and USB+Ethernet digital communications

Base Model

S8000 cooled mirror hygrometer, -60 to +40°C dew point range with internal pressure sensor fitted and USB+Ethernet digital communications and 6mm Swagelok tube fittings	S8K413
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Range

Cooled mirror hygrometer (1 bar g)	A
Cooled mirror hygrometer (20 bar g)	B

Calibrated Range

Standard traceable in-house calibration	A
UKAS / ISO17025 DP Cal (5 calibration points)	B

Sample Pump

No pump fitted - Default selection for 20 bar g unit	A
Internal pump and flow control valve - Available for 1 bar g only	B

ADDITIONAL CALIBRATION POINTS

CM-DPUKAS	5-pt UKAS/ISO17025 dew-point calibration (specify points required on order)
CM-DPAP01	Additional calibration points for UKAS/ISO17025 calibration

DCS60 DEW-POINT CALIBRATION SYSTEM OPTIONS

Rack System

DCS-RAK	Floor standing rack with instrument shelf (for positioning of instrument/sensor under test)
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Compressor System

CMP-10-240	Oil free air mini compressor, 29 psig/2 barg, 10 l/min (for PSD-2)
CMP-10-240+SPC	Oil free air mini compressor, 29 psig/2 barg, 10 l/min (for PSD-2) + Soundproof cabinet for compressor

Sensor Manifold

DCS-MAN	Sensor Manifold (Manufactured to suit the customer's sensors typically in anodized aluminum for RH probes or 316 SS for dew-point sensors - Price available on request when sensors to be calibrated are fully defined)
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DCS80 DEW-POINT SPARES & ACCESSORIES	
GEN-28700	USB A->B cable
GEN-21162	Red saturator filling cap
SSF-PF-10PK	Pack of 10 particulate filter cartridges (for protection against fine particulates < 0.1µm (for Sampler Kits))

Ordering Example	
PSD-2+AC	PSD2 Pressure Swing Dryer, 100 to 240 V AC
ADG400	Dew/frost point generator in the range -80 to +20 °Cdp. Volumetric mixing of wet and dry gases utilising mass flow controllers. Full-color touch-screen HMI. 11-point factory programmed dewpoint setpoint table from -80 to +20 °C at 10 °C intervals. 13-point user programmable dewpoint setpoint table with 3 programmable calibration profile.
S8K413-BAA	Cooled mirror hygrometer, -60 to +40 °Cdp range, 20 bar g pressure rating, standard traceable in-house calibration, no sample pump fitted fittings, no pump

DCS80 DEW-POINT CALIBRATION SYSTEM

Additional charges for packing and carriage

Product Parent Code: PSD2
Dry Air Generation - Pressure Swing Dryer (-80°Cdp nominal)

Base Model

Pressure Swing Dryer PSD-2-AC

Product Parent Code: DG-2
Dew-Point Generator

Base Model

2 stage mixing manual, -75 to +20°Cdp DG-2

Power

90 to 120 V AC 110
 220 to 260 V AC 240

Product Parent Code: ADG400
Dew-Point Generator

Base Model

Dew/frost point generator in the range -80 to +20 °Cdp. Volumetric mixing of wet and dry gases utilising mass flow controllers. Full-color touch-screen HMI. 11-point factory programmed dewpoint setpoint table from -80 to +20 °C at 10 °C intervals. 13-point user programmable dewpoint setpoint table with 3 programmable calibration profile. ADG400

S8000 RS

A high precision Chilled Mirror Hygrometer, with enhanced sensor cooling system providing accurate, reliable long-term performance for humidity measurement and calibration.

Base Model

Cooled Mirror Hygrometer with enhanced sensor cooling system (Supplied with 2 x active mA outputs (0/4-20mA), 1 x Process Relay 1 x Alarm Relay & SD card slot. Digital Outputs - Modbus RTU over USB and TCP/IP. Unit is mains powered 85-264V AC with IEC lead). Sample gas connections - Inlet 1/4" VCR, Outlet 1/4" Swagelok tube. S8K402

Range

B3 -90 to +20°C dew point A
 B4 -80 to +20°C dew point B

Calibrated range

C1 Standard traceable in-house calibration A
 C2 UKAS / ISO17025 DP Cal (5 calibration points) B

Internal Pressure Sensor

D1 Internal pressure sensor (0-16bara) A
 D2 Internal pressure sensor (0-1.6bara) B

Sample Pump

E0 No pump fitted - Default selection for 16bara A
 E1 Internal Pump & flow control valve - Available for 1.6bara only B

DCS60 DEW-POINT CALIBRATION SYSTEM OPTIONS

Rack System

DCS-RAK Floor standing rack with instrument shelf (for positioning of instrument/sensor under test)

Compressor System

CMP-10-240 Oil free air mini compressor, 29 psig/2 barg, 10 l/min (for PSD-2)

CMP-10-240+SPC Oil free air mini compressor, 29 psig/2 barg, 10 l/min (for PSD-2) + Soundproof cabinet for compressor

Sensor Manifold

DCS-MAN Sensor Manifold (Manufactured to suit the customer's sensors typically in anodized aluminum for RH probes or 316 SS for dew-point sensors - Price available on request when sensors to be calibrated are fully defined)

DCS80 DEW-POINT SPARES & ACCESSORIES	
GEN-28700	USB A->B cable
GEN-21162	Red saturator filling cap
SSF-PF-10PK	Pack of 10 particulate filter cartridges (for protection against fine particulates < 0.1µm (for Sampler Kits))

Ordering Example	
PSD-2+AC	PSD2 Pressure Swing Dryer, 100 to 240 V AC
ADG400	Dew/frost point generator in the range -80 to +20 °Cdp. Volumetric mixing of wet and dry gases utilising mass flow controllers. Full-color touch-screen HMI. 11-point factory programmed dewpoint setpoint table from -80 to +20 °C at 10 °C intervals. 13-point user programmable dewpoint setpoint table with 3 programmable calibration profile.
S8K402-BABA	S8K402-B4-C1-D2-E0: Dew-Point Hygrometer with enhanced sensor cooling system, -80 to -20 °Cdp range, standard traceable in-house calibration, internal pressure sensor (0-1.6 bara), no sample pump fitted

DCS100 DEW-POINT CALIBRATION SYSTEM

Additional charges for packing and carriage		
Product Parent Code: PSD-4 Dry Air Generation - Pressure Swing Dryer < -100°Cdp		
Product Ordering Code {Feature A}+{Feature B}		
Feature	Item	Description
Feature {A}	Base Model	
	PSD-4-STD-AC	Ultra high performance dryer (Range < -100°Cdp)
	PSD-4-HPO-AC	Ultra high performance dryer with high pressure output (Range < -100°Cdp)
	PSD-4-HFV-AC	Ultra high performance dryer with 90NI/min output (Range < -100°Cdp)

Dew-Point Generator - VDS		
Three-stage flow dilution, mass flow controller, precision dew-point generator. Fully interfaced to PC		
Feature	Item	Description
Base Model	VDS-3	Vapour Delivery System

Product Parent Code: S8K100		
Dew-Point Hygrometer (Supplied with 2 off outputs (0/4-20mA), 1x process relay, 1 x alarm relay and SD card slot. Unit is mains powered 85-264 V AC with IEC lead)		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}		
Feature	Item	Description
Feature {A}	Base Model	
	S8K100	Cooled Mirror Hygrometer with enhanced sensor cooling system
Feature {B}	Range	
	B1	-100 to +20 °Cfp/dp
Feature {C}	Standard Calibration	
	C1	UKAS / ISO17025 DP Cal (5 calibration points) plus -100 °Cfp verification
Feature {D}	Digital Communications	
	D1	USB only
	D2	USB + Ethernet
	D3	USB + RS232
	D4	USB + RS485
Feature {E}	Internal Pressure Sensor	
	E0	Internal pressure sensor (0-1.6 bara)
Feature {F}	Fittings	
	F1	1/4" VCR Fitting (inlet)
Feature {G}	Power Lead	
	G0	UK
	G1	EU
	G2	US
	G3	China
	G4	Australia

DCS100 DEW-POINT CALIBRATION SYSTEM OPTIONS

Order Codes	Product / Description
Compressor System	
CMP-25-240	Compressor and reservoir to feed PSD-4
Pre-Dryer	
DCS-PRE	Domnick Hunter pre-dryer (to dry PSD-4 air supply to -40°Cdp)
Sensor Manifold	
DCS-MAN	Sensor Manifold (Manufactured to suit the customer's sensors typically in anodized aluminum for RH probes or 316 SS for dew-point sensors - Price available on request when sensors to be calibrated are fully defined)

DCS100 DEW-POINT CALIBRATION SYSTEM ACCESSORIES AND SPARE PARTS

Order Codes	Product / Description
PSD-4-FO	Outlet Millipore wafergard inline sealed particulate filter 0.003µm
PSD-4-FV	Vent particulate filter element 0.1µm

Ordering Example

PSD-4-STD+AC+VDS-3+S4K-TRS+232+240	PSD4 Ultra high performance Pressure Swing Dryer, 100 to 240 V AC, VDS3 Dew-Point Generator, S4000 TRS Dew-Point Hygrometer, RS232, 220 to 260 V AC
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Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: DCS_97162_V10_UK_022024