

Portable DEWTRANS DPM-S2-S

DewTrans Highlights

- Unit offers stable, accurate and repeatable measurements that are traceable to NIST.
- operating menu via RS232 or optionally a data logger.
- Cooling ranges of the sensors of 65°C . (two-stage Peltier)
- Automatic mirror matching function
Automatic correction of mirror assignments.
Automatic matching of the optics.
Interval for automatic optics matching can be chosen.
Shortens possible incorrect measurements due to contamination.
- Two alarms
User programmable.
Can be configured as a holding alarm or normal alarm.
- Serial and analogue outputs.
- RS232 Communication with terminal program, printer or PC
Programming via RS232 possible
- Two 4-20 mA user scalable output.
2 outputs for measurement
Scalable also on psychrometric variables.
Programming via RS232.
- Pressure sensor input for psychrometric variable.
- Rechargeable lithium-ion battery for an independent measurement site.
- Pump Optionally available



Benefits

- Dew point mirror technology
- Measurement of dew point, absolute pressure, PPMv and other psychrometric variables
- Primary dew point level measurement for water vapour in gas
- Large measuring range (-45 to 100°C)
- Automatic mirror matching
- Certified measurement against NIST standard
- Analog & RS232 outputs
- **Dew and frost point measurement switchable**

Applications

- Oven atmosphere
- Process dryer
- Clean room
- Annealing furnace oven
- Gas manufacturers
- Climate Chambers
- Metrology
- Humidity labs

<p>Technical specification</p> <p>Tau/Frost Point and RH Areas -50°C to 100°C (-58 to 212°F), S2 0 to 100%RH 0 to 999,999 PPMv</p> <p>Measurement uncertainty ± 0.2°C, 0,15°C, 0.1°C Tau/Frost Punkt ± 0.5% auf FSD</p> <p>Cooling 65 degrees Celsius S2</p> <p>Abkühlungsgeschwindigkeit 1.7°C (3°F)/second maximum, below 0°C</p> <p>Sensor with cable bis zu 75 meter</p> <p>Resolution 0.1°C or °F 0.01 psia 0.1 PPMv < 1000 PPMv 1 PPMv 1000 PPMv</p> <p>Physical data</p> <p>Weight 9kg in case</p> <p>Dimensions 27.94 (W) x 13.2 (H) x 43.18 (D) cm, (11 (W) x 5.2 (H) x 17 (D) in),</p> <p>Sensor Material Chromium glass, epoxy, and Aluminum</p> <p>Sensor Selection S2 two-stage sensor as a foot sensor,</p>	<p>Functionality</p> <p>Power supply 90-230 VAC ±10%, 50-400Hz Battery operation for 2 days</p> <p>Working temperature DEWTRANS: -10 bis 60°C (15 to 140°F).</p> <p>Separate cooling to cool the sensor separately if necessary.</p> <p>Pressure 0 bis 10 bar (0 to 300 psia),S2.</p> <p>Flowrate 0.25 to 2.4 liter/minute (0.5/5.0 SCFH).</p> <p>Outputs (2 outputs available) 4-20 mA,RS232. Data logger (option)</p> <p>Track or Hold Outputs, analog, digital and alarms are held or can be tracked when the matching cycle is running.</p> <p>Alarm Zwei Form C, SPDT alarm relays for 3 A bei 24 VDC. Alarm (high or low) programmierbar.</p> <p>Display 12 Line LCD. Graphic data display, Backlight, 2 parameter display simultaneously</p> <p>Sensor Cable Sensor cable. Special length up to 30ft (10m).</p> <p>Options</p> <p>Data logger</p> <p>Panel/Rack Montage</p> <p>Gas sampling system</p> <p>Pump, filter, etc. on request</p> <p>NEMA-4 Wall Mount Enclosure For industrial applications</p>
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