Dew Point Sensor – K Series
Ideal for Refrigerant Dryers or Desiccant Dryers set as low as -40°C
Optional integrated pressure sensor

**Features:**
- Up to four output signals – Pressure Dew Point, Relative Humidity, Temperature & Pressure (with optional integrated pressure and connected via Modbus)
- Three range options
- Two output options – Modbus and 4-20mA
- Fast response time
- Optional integrated pressure transducer
- Stainless Steel Casing
- Includes Measuring Chamber and 2m or 5m Cable
- Multiple Gas options
- Up to 4 Mpa (600psi)
- Accuracy +/- 2°C
- IP65 rated

**Benefits of dew point monitoring:**
- Improves system reliability
- Reduces product contamination risks
- Reduces system maintenance
- Reduces operating and energy costs
- Reduces risk of rust and corrosion build up
- Improves dryer reliability
- Improves filter life and performance
- Reduces risk of bacteria, fungus and yeast build up
- Alerts you to changes in dryer performance before moisture appears in your plant
- Measuring chamber improves sensor response time and ease of installation

This precision dew point sensor is ideal for compressed air and inert gas systems using refrigerant or desiccant dryers up to 4 Mpa (600psi). The optional integrated pressure sensor makes measuring simpler and easier to manage, reducing wiring and installation costs. With polymer technology and strong contamination resistance, sensor calibration can be performed every 2 years¹. The fast response time ensures an accurate and up to date reading, giving you peace of mind that your system is under control.

¹Provided sensor not exposed to relative humidity above 85%

sales@compressedairalliance.com
www.compressedairalliance.com

Australian Owned & Operated
Modbus settings:

<table>
<thead>
<tr>
<th>Address</th>
<th>Baud Rate</th>
<th>Frame / Parity / Stop Bit</th>
<th>Response Time</th>
<th>Response Delay</th>
<th>Frame Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9600</td>
<td>8 / N / 1</td>
<td>1 Sec</td>
<td>0 Milliseconds</td>
<td>7 Characters</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Holding Register</th>
<th>Address</th>
<th>Data Type</th>
<th>Byte Length</th>
<th>Description</th>
<th>Unit</th>
<th>Read/Write</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>FLOAT</td>
<td>4</td>
<td>Temperature</td>
<td>°C or °F</td>
<td>Read</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>FLOAT</td>
<td>4</td>
<td>Relative Humidity</td>
<td>%RH</td>
<td>Read</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>FLOAT</td>
<td>4</td>
<td>Pressure Dew Point</td>
<td>°Ctd or °Ftd</td>
<td>Read</td>
</tr>
</tbody>
</table>

With optional integrated pressure sensor

21 20 FLOAT 4 System Pressure KPa, Mpa, Bar, PSI Read

Wiring:

- +12-30vDC
- 4-20mA Output
- 0 vDC
- Modbus RTU Data +
- Modbus RTU Data -

How to Order:
For OEM or Private Label version, please contact: Compressed Air Alliance

Gas Type
01 – Air
02 – Oxygen
03 – Nitrogen
04 – Hydrogen
05 – Carbon Monoxide
06 – Carbon Dioxide
07 – Argon
08 – Helium
09 – Other gas (please specify)

Integrated Pressure Sensor
0 - No
1 - Yes

Connector & Cable
0 – None
1 – M12 Connector Only
2 – M12 with 2M Cable
3 – M12 with 5M Cable

Measurement Chamber Option (Stainless Steel)
0 – None
1 – 1/4” Female Threads, No fittings
2 – 1/2” Quick coupling (Nitto type), Adjustable Silencer
3 – 6mm Push Fit coupling, Adjustable Silencer
4 – 1/4” Compression Fittings (Inlet & Outlet)
5 – 8mm Push Fittings (Inlet & Outlet)

Range
1 - -60°C ... +20°C
2 - -60°C ... +60°C
3 - -80°C ... +20°C
Note: Measurement below -60°C have reduced accuracy

Product Prefix
D E K 1 2 2 0 1 2

sales@compressedairalliance.com
www.compressedairalliance.com