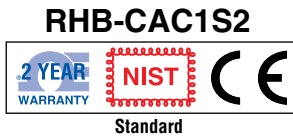


Compressed-Air Dew Point Monitor



- ✓ NIST-Traceable
- ✓ Accuracy: $\pm 0.2^{\circ}\text{C}$
- ✓ Virtually Maintenance Free
- ✓ Easy to Install
- ✓ Self-Monitoring
- ✓ User-Programmable Audible and Visual Alarms and Relay Contact
- ✓ Programmable Automatic Balance Control (ABC)
- ✓ Widest Available Range of -60 to 50°C (-76 to 122°F)

These compressed-air dew point monitors have been designed to offer the highest level of reliability and accuracy available in such systems. They are fully NIST-traceable and employ a chilled-mirror sensor, the most accurate dew point sensing scheme available, to deliver consistent drift-free measurements without regular calibrations or sensor replacement.

These compressed-air monitors are complete dew point measuring systems. The rugged aluminum NEMA 12 (IP55) enclosure houses the sensor and control circuitry (including flow control), and is easily wall mounted to conserve space. Only the sample line and power connection are needed for the system to be operational.

The monitors also offer a programmable automatic balance control (ABC) cycle that corrects for the light-reducing effects of mirror contaminants and allows for continuous monitoring and virtually maintenance-free operation.

Specifications

Dew/Frost Point Range:

2-Stage (S2):
 -40 to 50°C (-40 to 122°F)

3-Stage (S3):
 -60 to 50°C (-76 to 122°F)

Dew/Frost Point Accuracy:
 0.2°C ($\pm 0.5^{\circ}\text{F}$)

Functionality

Power: 90 to 250 Vac,
 50 to 400 Hz

Operating Temperature:
 0 to 50°C (32 to 122°F)

Sample Connection:
 $\frac{1}{4}$ " compression fitting

Sample Flow Rate: 0.5 to 5 SCFH;
 integral flowmeter

Sample Pressure: 0 to 150 psig
 (higher pressures available,
 consult Engineering Department)

Output:

Analog: 4 to 20 mA (0 to 5 Vdc),
 -50 to 50°C (-58 to 122°F) or
 -60 to 75°C (-76 to 167°F)

Compliance: 9.0 Vdc, 450 Ω

Display: Red LED, 0.5" high;
 8-digit alphanumeric

Alarm:

Audible: >98 dB @ 2'

Relay: 1 form "C", non-latching;
 10 A @ 240 Vac, 8 A @ 24 Vdc,
 $\frac{1}{2}$ hp @ 240 Vac

Visual: Flashing "ALARM" message



RHB-CAC1S2 shown smaller than actual size.

PR-11-3-100-1/4-6-E-120 replacement temperature probe with 3 m (10') cable, shown smaller than actual size.

See omega.com for more probes.

Standard Features

- ✓ Programmable Automatic Balance Control (ABC)
- ✓ 8-Digit Alphanumeric Display
- ✓ User-Programmable Alarm
- ✓ Internal Flowmeter and Valve
- ✓ Audible and Visual Alarms
- ✓ Alarm Relay, Form "C"
- ✓ 4 to 20 mA (0 to 5 Vdc) Analog Output
- ✓ Microprocessor-Controlled
- ✓ Space-Saving Wall Mount

To Order Visit omega.com/rhb-cac1s for Pricing and Details

| Model No. | Description |
|---------------------|--|
| RHB-CAC1S2 | Compressed-air dew point monitor with 2-stage sensor |
| RHB-CAC1S2-RHB-ATP | Compressed-air dew point monitor with 2-stage sensor and temperature probe with 3 m (10') cable |
| RHB-CAC1S2C | Compressed-air dew point monitor with 2-stage sensor and fan cool |
| RHB-CAC1S2C-RHB-ATP | Compressed-air dew point monitor with 2-stage sensor, fan cool, and temperature probe with 3 m (10') cable |
| RHB-CAC1S3 | Compressed-air dew point monitor with 3-stage chill mirror |
| RHB-CAC1S3-RHB-ATP | Compressed-air dew point monitor with 3-stage chill mirror and temperature probe with 3 m (10') cable |

Comes complete with operator's manual and NIST certificate.

Ordering Example: RHB-CAC1S2, compressed-air dew point monitor with 2-stage sensor.