

CONDENSATION PREVENTION SENSOR

CP Series

The CP Condensation Prevention sensor uses a field-proven RH sensor combined with a tightly-coupled precision thermistor to provide early warning of condensing conditions in chilled beam / ceiling applications and prevent “indoor rain” condensation. The sensor can also be used in any heating, ventilation or air conditioning application to where condensation must be avoided.

The sensor features a Form-C dry-contact output signal, LED status indication, setpoint adjustment and an attractive compact enclosure. It is available as a stand-alone device with screw terminal blocks or with various lengths of attached cable for ease of application.

The device includes cable ties for quick and simple pipe mounting. The enclosure also has provisions for screw mounting to a surface in non-pipe installations.

PRODUCT HIGHLIGHTS

* Dual wavelength Nondispersive Infrared sensor
* Selectable outputs
* Optional temperature sensor

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| POWER SUPPLY | 5 to 28 Vac/dc |
| CONSUMPTION | 3 mA @ 24 Vdc max |
| TEMPERTURE ACCURACY | ±0.2°C (±0.4°F), 0 to 50°C (32 to 122°F) |
| RH ACCURACY | ±3 %RH @ 90 %RH |
| RESPONSE TIME | <1 second |
| SETPOINT RANGE | ±2°C (dewpoint) |
| ALARM CONTACT RATING | Form C (NO + NC), 1A @ 24 Vac/dc |
| ALARM HYSTERESIS | 1 minute on-delay to prevent false alarms |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 5 to 95 %RH non-condensing |
| STORAGE CONDITIONS | -30 to 70°C (-22 to 158°F) |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| ENCLOSURE | ABS, UL94-V0, IP30 (NEMA 1) |
| DIMENSIONS | 56mm W x 50mm H x 21mm D (2.2” x 1.97” x 0.83”) |
| WEIGHT | 35gm (1.23oz) |
| LEAD LENGTH (OPTIONAL) | 1, 5 and 10 meter |
| COUNTRY OF ORIGIN | Canada |

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