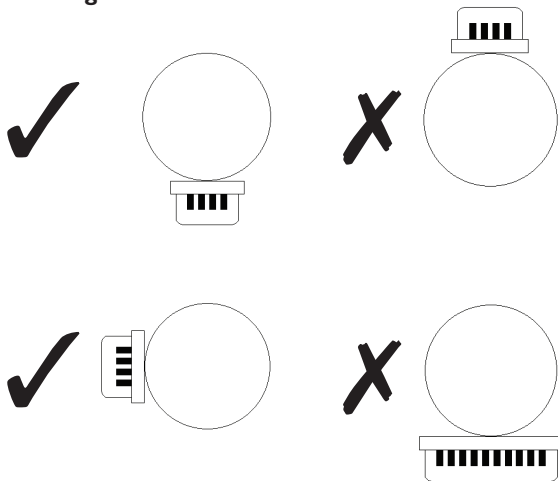


Dewpoint Based Condensation Detector

Installation

1. The HS-CB101/105 should only be installed by a competent, suitably trained technician.
2. Ensure that all power is disconnected before carrying out any work on the HS-CB101/105.
3. The unit should be mounted as close as possible to the chilled water inlet, or the coldest part of the system to be measured. Ambient air must be allowed to enter and circulate around the detector element.
4. The detector can be installed on a pipe with the cable-ties or on a flat surface with the 2 self-tapping screws provided.
5. If the detector is to be mounted onto a pipe, it is important the unit is mounted length wise. This is to ensure maximum thermal transfer efficiency. It is also important that no insulating material is used between the detector and the pipe or mounting surface. The detector plate must be kept at the same temperature as the potential condensing surface.
6. Terminate the flying lead as required and ensure that the voltage is within the specified tolerances.

Mounting Position



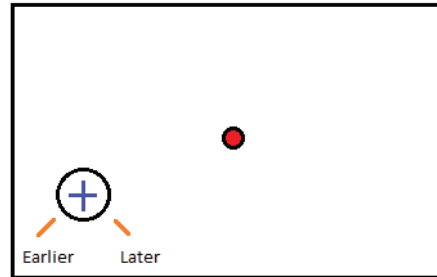
Connections

Current mode	VFC mode	
	Power Supply	Free Contact
		Green Wire: Common
Red Wire: +24Vdc	Red Wire: +24Vac/dc	White Wire: N/C*
Blue Wire: 4-20mA	Blue Wire: 0V	Yellow Wire: N/O*

* Below the dew point set point

Operation

The WD-CPS operates on dew point temperature rather than a fixed value of relative humidity. The dew point is calculated from a temperature compensated RH element and a high accuracy thermistor which are thermally bonded to the metal plate of the WD-CPS. The switching set point is determined as $3^{\circ}\text{C} \pm$ the pot offset above the current dew point. The relay is activated when the dew point temperature is below the offset set point.



Turn counter-clockwise for earlier detection, or clockwise for later detection.

LED Indication

The red LED, visible through the top of the housing, has 4 functions;

1. Short blink once every 15 seconds to show the device is working properly.
2. Rapid continuous blinking to show the dew point switching set point is close.
3. Continuously ON when the output is switched on.
4. One long flash followed by 2 short flashes to show the temperature element is faulty

Product Codes to Order

HS-CB101

Chilled beam condensation detector - 2m (6.5') cable

HS-CB105

Chilled beam condensation detector - 5m (16.5') cable