CDC-NA - 2-10V Duct Humidity Sensor



2-10V Duct Humidity Sensor Installation Instructions

This document covers the operation and installation instructions for the following Condair duct humidity sensor:

Kit No. Component No. Description

2597926 1509857 2-10V Duct Humidity Sensor

The humidistat can be configured for either humidity control or as a high limit safety device.

1 - Mounting and Installation

Location:

The Condair CDC-NA is installed directly on the duct.

- Mounting in the extract air duct (recommended):
 - Mount the CDC-NA in the extract air duct close to the air outlet of the room but downstream from an extract air fan if one is present.
- Mounting in the supply air duct:
 - Mount the CDC-NA in the supply air duct at least 3 meters downstream from the nearest fan and coil and with a minimum distance of 5x the humidification distance to the steam distribution.

Installation:

Refer to installation overview in section 2.

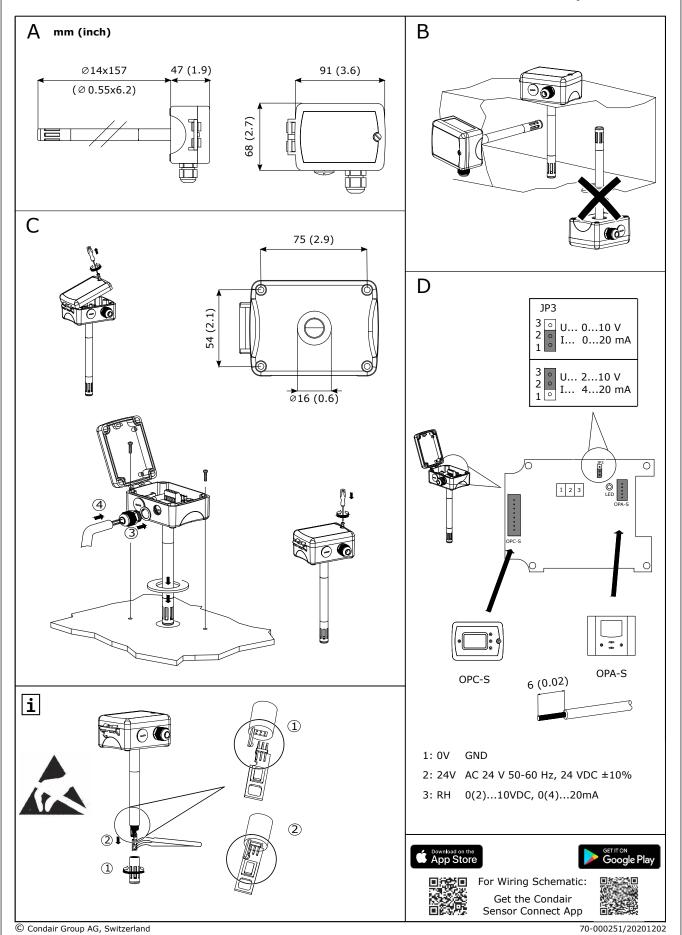
- 1. At the place of location drill a hole with a diameter of 16 mm (5/8") as well as 4 holes for the self-tapping screws into the duct.
- 2. Loosen the screw on the housing cover and open cover.
- Lead connecting cable through the cable gland and connect wires to the terminate according to the wiring diagram.
- 4. Stick gasket on the sensor side centrally on the housing (self-adhesive).
- 5. Insert the probe into the hole in the duct, then fix the housing to the duct using the 4 self-tapping screws provided.
- 6. Close the cover and fix it with the screw (do not tighten the screw too much).

Note: We recommend using 18-gauge wire, and maximum <100 ft distance from the unit.

3 - Installation overview



CDC-NA 2597926/1509857

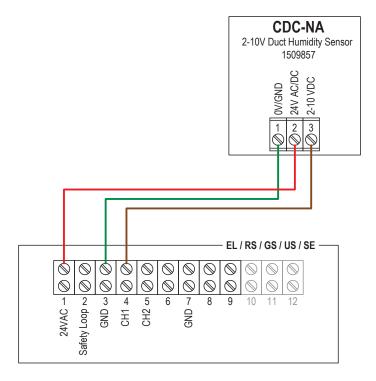


8 – Product Specification

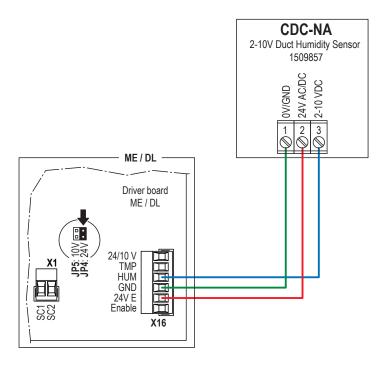
Power Supply	Operating Voltage Power Consumption Terminal Connections	24 V AC 50/60 Hz ± 10 % Max. 2 VA For wires 0.342.5 mm² (AWG 2412)
Sensor Probe (Humidity Sensor)	Measuring element Range Accuracy Hysteresis Repeatability Stability	Capacitive measuring element 0100 % RH ± 3.0 % at 25 °C ± 1% ± 0.1% < 0.5% / Year
Signal Outputs	Analog Outputs Analog Signal Resolution Maximum Load	0-10V / 2-10V 10 Bit 20 mA, 500Ω
Environment	Operation Temperature Humidity	IEC 721-3-3 -4070°C (-40158°F) <95 %rH not condensing
General	Housing Materials Filter material	PC and ABS PTFE coated 1µm pores

9 - Wiring Diagrams

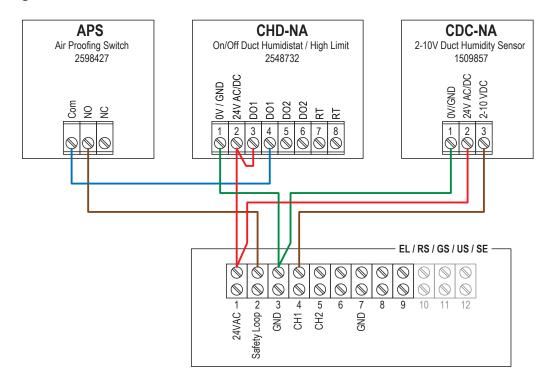
Wiring diagram CDC-NA for RS, EL, GS, US and SE



Wiring diagram CDC-NA for DL and ME



Wiring diagram CDC-NA with CHD-NA and APS for RS, EL, GS, US and SE



Wiring diagram CDC-NA with CHD-NA for DL and ME

