

# CONDAIR CONTROLS PORTFOLIO OVERVIEW

## Humidity & Temperature Sensors

### nLink analogIP

PN 2599898



#### Description:

Humidity & Temperature Transmitter

Supply: 24 V DC (5...39 V DC)  
2x Analog Out: 0...10 V / 0...20 mA  
2...10 V / 4...20 mA

- Configuration via USB cable / Windows application or via NFC / smartphone app (iOS and Android) without external power
- IP67 rating
- Compatible with sensor 2599899 and cable 2581018

#### Application:

- Industrial/Commercial duct and room application
- Applicable for duct and in-space applications where high precision control is required

### nSens HT-ENS

PN 2599899

#### Description:

High precision Humidity & Temperature Sensor

Accuracy:  $\pm 0.5\%$  rH (@ 15...30 °C)  
 $\pm 0.1\text{ °K}$  (@ 0...65 °C)



- Digital humidity / temperature sensor
- Electrolytic-resistive humidity sensor technology
- NTC temperature sensor
- Pre-calibrated with certificate
- Durable against H<sub>2</sub>O<sub>2</sub>, NH<sub>3</sub> up to 1 %
- Mechanical protection: nCap-PS Polyethylen Silberoxid Filter

#### Application:

- Sensing element for High Precision Humidity & Temperature Transmitter

### nSens Cable 5 m

PN 2581018



#### Description:

5 m cable for nLink analogIP and nSense HT-ENS

#### Application:

- 5 m extension cable for the use with the nSens SensorHT-ENS for duct applications

## CDC-NA – Duct Humidity Sensor

PN 2597926



### Description:

Accuracy:  $\pm 2.5$  % rH  
Supply: 24 V AC/DC  
Selectable  
Output: 2...10 V  
Probe length: 6.2" (157 mm)

- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Industrial/Commercial duct application
- High humidity control requirements, e.g. humidification for process reasons

## CDC-SL – Duct Humidity Sensor

PN 2598744



### Description:

Accuracy:  $\pm 4.5$  % rH  
Supply: 24 V AC/DC  
Output: 2...10 V  
Probe length: 3" (76 mm)

- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Private end user duct application
- Standard humidity control requirements, e.g. humidification for room comfort

## CRC-NA – Room humidity sensor with display

PN 2597927



### Description:

Accuracy:  $\pm 2.5$  % rH  
Supply: 24 V AC/DC  
Output: 0...10 V

- Display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Industrial/Commercial duct and room application
- NA standard size housing for flush mount (3 in. x 2 in. and 4 in. x 2 in. mounting box)
- Applicable for humidifiers with blower pack and for duct application with room humidity control.
- Available from production Ottawa for NA

## DCC-NA – Humidity Controller with external duct sensor

PN 2597929



### Description:

Accuracy:  $\pm 2.5\%$  rH  
Supply: 24 V AC/DC  
Output: 0...10 V  
Probe length: 6.2" (157 mm)

- PID control output for humidifier
- Outdoor temperature input for set-back mode
- 3" display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Industrial/Commercial duct application for humidifiers without internal control function
- Controller housing with NA standard size for flush mount (3 in. x 2 in. and 4 in. x 2 in. mounting box)
- High humidity control requirements, e.g. humidification for process reasons
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## RCC-NA – Room controller with display

PN 2597928



### Description:

Accuracy:  $\pm 2.5\%$  rH  
Supply: 24 V AC/DC  
Output: 0...10 V

- PID control output for humidifier
- Outdoor temperature input for set-back mode
- 3" display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Industrial/Commercial duct and room application for humidifiers without internal control function, NA standard size
- NA standard size housing for flush mount (3 in. x 2 in. and 4 in. x 2 in. mounting box)
- High humidity control requirements, e.g. humidification for process reasons

## CHD-NA – Duct Humidistat with Display

PN 2597935

### Description:

Accuracy:  $\pm 4.5\%$  rH  
 Supply: 24 V AC/DC  
 Output: 2x dry contact  
 Probe length: 76 mm (3")



- Binary control for humidifiers
- Binary output for fan coil
- Outdoor temperature input for set-back mode
- Password protected programmable user and control parameters
- Display with backlight
- Capacitive sensing element

### Application:

- Industrial/Commercial duct application
- Applicable where On/Off humidity control is sufficient, e.g. woodwork industry or storage halls
- Can be used as a high limit humidistat in the safety loop if a display is required.
- Available from production Ottawa for NA

## CHR-NA – Room Humidistat with display

PN 2597934

### Description:

Accuracy:  $\pm 4.5\%$  rH  
 Supply: 24 V AC/DC  
 Output: 2x dry contact



- Binary control for humidifiers
- Binary output for fan coil
- Outdoor temperature input for set-back mode
- Password protected programmable user and control parameters
- Display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

### Application:

- Industrial/Commercial room application
- Applicable for RS/EL with blower pack or direct room devices where On/Off humidity control is sufficient, e.g. woodwork industry or storage halls
- NA standard size housing for flush mount (3 in. x 2 in. and 4 in. x 2 in. mounting box)
- Can be used as a high limit humidistat in the safety loop if a display is required.

## MHR – Mechanical Room Humidistat

PN 2599901

### Description:

Accuracy:  $\pm 3\%$  rH  
 Range: 25...95 % rH  
 Output: changeover contact



- No power supply needed
- Suitable for high humidity level
- IP30 rating
- 15A / 250V switching load

### Application:

- All application (duct and room)
- Limiting humidistat to wire in the safety loop
- Suitable for both humidification and dehumidification

## CDA – Duct Airflow Monitor

PN 2599895



### Description:

Hysteresis: 2 %  
 Range: 0.1–30 m/s  
 Supply: 24 V AC/DC  
 Output: changeover contact  
 Probe length: 5.5" (140 mm)

- Calorimetric measurement principle
- Temperature compensated
- Adjustable switching point via potentiometer
- IP65
- incl. mounting flange

### Application:

- Industrial/Commercial duct application
- Applicable where an air proving switch (pressure difference) is not sensitive enough
- Connected to the safety loop

## CDA-S – Duct Airflow Monitor

PN 2599896



### Description:

Hysteresis: 2 %  
 Supply: 24 V AC/DC  
 Output: changeover contact  
 Probe length: 110 mm (4.33")

- Calorimetric measurement principle
- Temperature compensated
- Adjustable switching point via potentiometer
- IP65
- incl. mounting flange

### Application:

- Private end user duct application
- Applicable where an air proving switch (pressure difference) is not sensitive enough
- Connected to the safety loop
- Available from production Hamburg & Ottawa

## APS-NA – Air proving Switch [“WC]

PN 2598427



### Description:

Range: 0,08...1,206 inch WC  
 Output: changeover contact  
 Operating difference: ~0.04" WC ±15 %

- No power supply needed.
- incl. connection set
- 5A / 250VAC switching load
- IP54 rating
- DVGW (according to DIN 1854)

### Application:

- Industrial/Commercial duct application
- Differential pressure switch to wire in the safety loop as air proving switch.
- Switch-point scale in inch water column

## COT – Outdoor temperature sensor

PN 2602553

### Description:

Passive NTC Thermistor



### Application:

- All application (duct and room)
- Mounted outside the building to read out the outdoor temperature and reduce the humidity control set-point to prevent condensation on windows and building structures.

### Only in combination with:

DCC-NA, RCC-NA, CHD-NA, CHR-NA

## CDT – Duct Temperature Sensor

PN 2520263

### Description:

Passive NTC Thermistor



### Application:

- Industrial/Commercial duct application
- Mounted onto the fresh air intake to read out the outdoor temperature and reduce the humidity control set point to prevent condensation on windows and building structures.

### Only in combination with:

DCC-NA, RCC-NA, CHD-NA, CHR-NA

## Control, 0-10 V Controller w/o Sensor

PN 2520261

### Description:

Supply: 24 V AC/DC

Output: 0...10 V



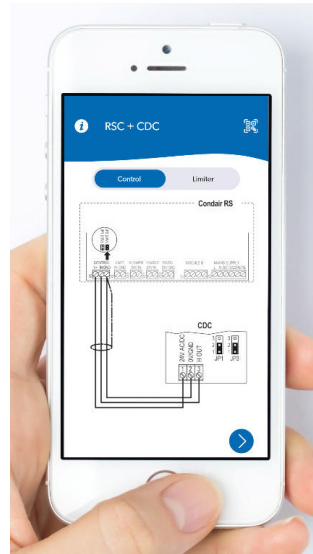
### Application:

- Spare Part for DCC-NA

# Smartphone App - Condair Sensor Connect



## Scan the Sensor QR      Scan the Device QR      Get the Schematic      Get the Settings



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