CONDAIR SENSORS
PORTFOLIO OVERVIEW

Humidity & Temperature Sensors

nLink analogIP

SAP No.: 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
- Available from production Hamburg for RoW

For use with:

DL, RS, EL, GS, DA, DC

nSens HT-ENS

SAP No.: 2599899

Description:

High precision Humidity & Temperature Sensor

Accuracy: ±0.5 % rH (@ 15…30 °C)
                       ±0.1 °K (@ 0…65 °C)

- Digital humidity / temperature sensor
- Electrolytic-resistive humidity sensor technology
- NTC temperature sensor
- Pre-calibrated with certificate
- Durable against H_2O_2, NH_3 up to 1 %
- Mechanical protection: nCap-PS Polyethylen Silberoxid Filter

Application:

- Sensing element for High Precision Humidity & Temperature Transmitter
- Available from production Hamburg for RoW

nSens Cable 5 m

SAP No.: 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

UDC – Universal Duct Controller

Description:

Accuracy:	±2.5 % rH
	±0.4 °K
Supply:	24 V AC/DC
2x Analog Out:	0…10 V / 0…20 mA
	2…10 V / 4…20 mA
1x Digital Out:	Changeover contact
Probe length:	157 mm (6.2")

• 2 freely programmable PID control loops and outputs
• 1 free programmable binary output
• Outdoor temperature input for set-back mode
• Password protected programmable user and control parameters
• Programmable via PC interface
• Display with backlight
• Capacitive sensing element
• Excellent reliability and long-term stability

Application:

• Industrial/Commercial duct application
• For special needs, e.g. dehumidification
• Available from production Hamburg for RoW
• Free programmable, works with all Condair devices especially dehumidifiers

Humidity / Temperature Sensor MD

Description:

CDC-ST incl. cable

Accuracy:	±2.5 % rH
	±0.4 °K
Supply:	24 V AC/DC
Output:	0…10 V / 0…20 mA
	2…10 V / 4…20 mA
Probe length:	76 mm (3")

• Capacitive sensing element (Humidity)
• Silicon band gap sensor (Temperature)
• Excellent reliability and long-term stability
• incl. 4-core cable 5 m (2594494)
• incl. 4-core cable 10 m (2607987)

Application:

• Private end user duct application
• Higher accuracy for applications where the intake air temperature is low to avoid high deviation at target room temperature. Temperature output for the use with Condair MD
• Available from production Hamburg for RoW

For use with:

MD

Humidity Sensors

CDC – Duct Humidity Sensor   SAP No.: 2559251

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Selectable Output:	0…10 V / 0…20 mA 2…10 V / 4…20 mA
Probe length:	157 mm (6.2")

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

Application:

• Industrial/Commercial duct application
• High humidity control requirements, e.g. humidification for process reasons
• Available from production Hamburg for RoW

For use with:

DL, ME, RS, EL, GS, SE, DA, DC, CP3mini

CDC-NA – Duct Humidity Sensor   SAP No.: 2597926

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Selectable Output:	2…10 V
Probe length:	157 mm (6.2")

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

Application:

• Industrial/Commercial duct application
• High humidity control requirements, e.g. humidification for process reasons
• Available from production Ottawa for NA

For use with:

DL, ME, RS, EL, GS, SE, DA, DC, CP3mini

CDC-SL – Duct Humidity Sensor   SAP No.: 2598744 / 2597776

Description:

Accuracy:	±4.5 % rH
Supply:	24 V AC/DC
Output:	2…10 V
Probe length:	76 mm (3")

• 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
• **2598744** available from production Ottawa for NA
• **2597776** available as a spare part set with cable and plug from production Hamburg for RoW

For use with:

RH

CRC – Room humidity sensor

SAP No.: 2559257

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Output:	0…10 V / 0...20 mA
	2…10 V / 4...20 mA

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

Application:

- Industrial/Commercial duct and room application
- EU standard size housing for flush mount (68 mm and 71 mm mounting box)
- Applicable for humidifiers with blower pack and for duct application with room humidity control.
- Available from production Hamburg for RoW

For use with:

DL, ME, RS, EL, US, GS, SE, DA, DC, CP3mini

CRC-NA – Room humidity sensor with display

SAP No.: 2597927

Description:

Accuracy:	±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

For use with:

DL, ME, RS, EL, US, GS, SE, DA, DC, CP3mini

DCC – Humidity Controller with external duct sensor   SAP No.: 2524836

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Output:	0…10 V / 0…20 mA
	2…10 V / 4…20 mA
Probe length:	157 mm (6.2")

- PID and/or binary control for de-/humidifier
- 3" display with backlight
- Password protected programmable user and control parameters
- 7-day programmable schedules
- Capacitive sensing element
- Excellent reliability and long-term stability

Application:

- Industrial/Commercial duct application for humidifiers without internal control function
- Controller housing with EU standard size for flush mount (68mm and 71 mm mounting box)
- High humidity control requirements, e.g. humidification for process reasons
- Available from production Hamburg for RoW

For use with:

EC, ESCO, MES2, LS

DCC-NA – Humidity Controller with external duct sensor   SAP No.: 2597929

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Output:	0…10 V
Probe length:	157 mm (6.2")

- 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
- Available from production Ottawa for NA

For use with:

EC, ESCO, MES2, LS

RCC – Room controller with display   SAP No.: 2521289

Description:

Accuracy:	±2.5 % rH
Supply:	24 V AC/DC
Output:	0…10 V / 0…20 mA
	2…10 V / 4…20 mA

- PID and/or binary control for de-/humidifier
- 3" display with backlight
- Password protected programmable user and control parameters
- 7-day programmable schedules
- Capacitive sensing element
- Excellent reliability and long-term stability

Application:

- Industrial/Commercial duct and room application for humidifiers without internal control function,
- EU standard size housing for flush mount (68 mm and 71 mm mounting box)
- High humidity control requirements, e.g. humidification for process reasons
- Available from production Hamburg for RoW

For use with:

EC, ESCO, MES2, LS, ABS3

Description:

Accuracy:	±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
• Available from production Ottawa for NA

For use with:

EC, ESCO, MES2, LS, ABS3

Humidistats

CHD – Duct Humidistat with Display

SAP No.: 2559259

Description:

Accuracy:	±4.5 % rH
Supply:	24 V AC/DC
Output:	1x dry contact
Probe length:	157 mm (6.2")

- Binary control for humidifiers
- Password protected programmable user and control parameters
- Display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

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. Not recommended for EL (RoW), RS (RoW) and EC as these devices use mains voltage for the safety loop.
- Available from production Hamburg for RoW

For use with:

DL, ME, GS, SE, CP3mini

CHD-NA – Duct Humidistat with Display

SAP No.: 2597935

Description:

Accuracy:	±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
- Excellent reliability and long-term stability

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

For use with:

DL, ME, GS, SE, CP3mini, RH,
RS (NA), EL (NA)

Maximum Hygrostat MD – Duct Humidistat with Display (CHD-S) incl. cable

SAP No.: 2591697

Description:

Accuracy:	±4.5 % rH
Supply:	24 V AC/DC
Output:	dry contact
Probe length:	76 mm (3")

- Binary control for humidifiers
- Password protected programmable user and control parameters
- Display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability

Application:

- Private end user duct application
- High limit humidistat to be wired into the safety loop if a humidistat with display is required.
- Available from production Hamburg for RoW

For use with:

MD, RH

CHR – Room Humidistat with display

Description:

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

- Binary control for humidifiers
- Password protected programmable user and control parameters
- Display with backlight
- Capacitive sensing element
- Excellent reliability and long-term stability
- incl. connection box surface mounting

Application:

- Industrial/Commercial room application
- EU standard size housing for flush mount (68 mm and 71 mm mounting box)
- 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
- Can be used as a high limit humidistat in the safety loop if a display is required. Not recommended for EL (RoW), RS (RoW)
- Available from production Hamburg for RoW

For use with:

RS, EL, US, CP3mini, ABS3

CHR-NA – Room Humidistat with display

Description:

Accuracy:	±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. Not recommended for EL (RoW), RS (RoW)
- Available from production Ottawa for NA

For use with:

RS, EL, US, CP3mini, ABS3

MHD – Mechanical Duct Humidistat

Description:

Accuracy:	±4.5 % rH
Range:	35…95 % rH
Output:	changeover contact

- No power supply needed
- Suitable for high humidity level
- IP65 rating
- 15A / 250V switching load
- incl. mounting flange and wall holder

Application:

- Industrial/Commercial duct application
- Limiting humidistat to wire in the safety loop
- Suitable for both humidification and dehumidification
- Available from production Hamburg for RoW

For use with:

DL, ME, RS, EL, GS, SE, CP3mini, ABS3

Description:

Accuracy: ±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
- Available from production Hamburg & Ottawa

For use with:

DL, ME, RS, EL, US, GS, SE, CP3mini, MD, RH

Air Proving Switches

CDA – Duct Airflow Monitor

SAP No.: 2610555

Description:

Hysteresis:	2 %
Range:	0.1–20 m/s
Supply:	24 V AC/DC
Output:	changeover contact
Installation length:	220 mm (8.7")

- 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
- Available from production Hamburg & Ottawa

For use with:

DL, ME, RS, EL, GS, SE, CP3mini

CDA-S – Duct Airflow Monitor

SAP No.: 2599896 / 2597778

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
- 2597778 incl. cable and plug, available from Hamburg

For use with:

MD

Airflow Monitor 0.1-15 m/s (RLSW4R)

SAP No.: 2589837 / 2603154

Description:

Range:	0.1–15 m/s
Supply:	24 V AC/DC
Output:	Signal output: 1 normally open contact
Immersion depth:	ca. 50 mm

- Calorimetric measurement principle
- Adjustable switching point via potentiometer
- IP65

Application:

- Private end user duct application
- Applicable where an air proving switch (pressure difference) is not sensitive enough
- The safety chain is switched
- 2603154 incl. cable and plug, available from Hamburg

For use with:

RH

APS – Air proving Switch [Pa]

Description:

Range:	20...300 Pa
Output:	changeover contact
Operating difference:	~0.1 mbar ±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 Pascal
- Available from production Hamburg for RoW

For use with:

DL, ME, RS, EL, GS, SE, CP3mini

APS-NA – Air proving Switch ["WC]

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
- Available from production Ottawa for NA

For use with:

DL, ME, RS, EL, GS, SE, CP3mini

Accessories

COT – Outdoor temperature sensor   SAP No.: 2553858

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.
- Available from production Ottawa for NA

Only in combination with:

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

CDT – Duct Temperature Sensor   SAP No.: 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.
- Available from production Ottawa for NA

Only in combination with:

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

Control, 0-10 V Controller w/o Sensor   SAP No.: 2520261

Description:

Supply:	24 V AC/DC
Output:	0...10 V

Application:

- Spare Part for DCC-NA

Duct Sensor Flange   SAP No.: 2596994

Application:

- All duct application
- Accessory to mount the duct sensors onto round ducts.
- Not needed for mechanical sensors and air flow monitors

Smartphone App - Condair Sensor Connect

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Condair Group AG
Gwattstrasse 17, 8808 Pfäffikon SZ, Switzerland
Phone +41 55 416 61 11, Fax +41 55 588 00 07
www.condairgroup.com