Analog Output Sensors *for BAS Controllers*

Housing   **User Interface**   **CO2 Sensor**   **RH Sensor***

SLA

S = Medium white matte housing
W = Optimum white housing

SLP

B = Optimum black housing

T = Color touchscreen
L = 3-button LCD display
X = None

C = NDIR CO_2
CV = NDIR CO_2 / VOC
X = None

2 = 2%
X = None

Example:
SLA | S | T | C | 2

* RH elements are replaceable.

Housing Finishes

Blank   **Optimum White**

Optimum Black   **Medium White**

Analog *(CW2, HW2, TW2, SLA)*
Protocol *(CW2, HW2, TW2, SLP)*

Interface Types

Touchscreen   **LCD with Buttons**

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Temperature & IAQ Sensors

for Controllers with Analog I/O & / or Thermistors

Touchscreen **Blank** **LCD with Buttons**

CW2 Air Quality Sensors

User Interface	Output	RH Accuracy*	Temperature	VOC Sensor
CW2 ☐	☐	☐	☐	☐

T = Color touchscreen
L = 3-button LCD display
X = None***

A = Analog

2 = 2%
X = None***

A = Transmitter
C = 1000 PT RTD
D = 10K T2 thermistor
H = 10K T3 thermistor
K = 10K curve G/11K shunt
M = 20K NTC thermistor
N = 1.8K TAC thermistor

V = NDIR CO2 / VOC**
= None

Example:

CW2	T	A	2	A	V

* Replaceable 1% with NIST certificate, 2% with NIST certificate and 2% elements available.
** VOC only availble with temperature transmitter option
*** For analog non-display, non-RH, models with RTD/thermistor order from CWE2 line.

HW2 Humidity Sensors

User Interface	Output	RH Accuracy*	Temperature
HW2 ☐	☐	☐	☐

T = Color touchscreen
L = 3-button LCD display
X = None

A = Analog

2 = 2%

A = Transmitter
C = 1000 PT RTD
D = 10K T2 thermistor
G = 10K CPC thermistor**
H = 10K T3 thermistor
K = 10K curve G/11K shunt
M = 20K NTC thermistor
N = 1.8K TAC thermistor
R = 10K curve G***

Example:

HW2	T	A	2	A

* Replaceable 1% with NIST certificate, 2% with NIST certificate and 2% elements available.
** Available in HW2XA2G only.
*** Available in HW2XA2R only.

TW2 Temperature Sensors

User Interface	Output		Temperature
TW2 ☐	☐	X	☐

T = Color touchscreen
L = 3-button LCD display
X = None

A = Analog

A = Transmitter
C = 1000 PT RTD
D = 10K T2 thermistor
H = 10K T3 thermistor
K = 10K curve G/11K shunt
M = 20K NTC thermistor
N = 1.8K TAC thermistor

Example:

TW2	T	A	X	A

REPLACEABLE RH ELEMENTS

MODEL	RH ACCURACY	CALIBRATION CERTIFICATE	DESCRIPTION
H51N	±1%	X	Replaceable RH sensor, 1% with NIST certification
H52N	±2%	X	Replaceable RH sensor, 2% with NIST certification
H52X	±2%		Replaceable RH sensor, 2%

Replaceable RH Element

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Sensors with I/O Analog Inputs
& / or Thermistors

CWE2
Economy Air Quality Sensors

CWE2 & CWV2

Temperature

= None
C = 1000 PT RTD
D = 10K T2 thermistor
H = 10K T3 thermistor
K = 10K curve G/11K shunt
M = 20K NTC thermistor
N = 1.8K TAC thermistor

Example:
CWE2 [C]

CWV2 Value Air Quality Sensors

Model	User Interface
CWV2	Blank

CWE2 has 2-wire, 44-20mA, CO2 Output!

Controllers with BACnet MSTP or Modbus RTU Inputs

CW2P, HW2P and TW2P Series sensors by Veris are designed for use with third party BAS controllers that use BACnet MSTP or Modbus via RS-485. These sensors share the same platform as the SLP Series and are available with VOC/CO$_2$, CO$_2$, RH and Temperature sensors with Touchscreen, LCD and Blank covers. Touchscreen and LCD with three button models include a momentary override and setpoint for temp, RH or fan speed. All models include the "Medium" matte white finish with no logo on the face. If Schneider Electric-branding or "Optimum" white glass panel and "Optimum" black glass panel finishes are required, SLP models listed on AS-P Series BACnet Controllers (page 9) may be used.

User Interface Types

Blank   **LCD with Button**s   **Touchscreen**

CW2P Air Quality Sensors

User Interface | Output | RH Accuracy* | A | VOC Sensor

CW2 [ ] [ ] [ ] A [ ]

T = Color touchscreen
L = 3-button LCD display
X = None***

P = BACnet/ Modbus

2 = 2%
X = None

V = NDIR CO$_2$ / VOC
= None

Example:
CW2 [T] [P] [2] [A] [V]

* Replaceable 1% with NIST certificate, 2% with NIST certificate and 2% elements available.

HW2P Humidity Sensors

Model	User Interface	RH*	Temp.	Setpoint	Override
HW2TP2A	Touchscreen	X	X	X	X
HW2LP2A	LCD / 3 Buttons	X	X	X	X
HW2XP2A	Blank	X	X		

* Replaceable 1% with NIST certificate, 2% with NIST certificate and 2% elements available.

TW2P Temperature Sensors

Model	User Interface	Setpoint	Override	Temperature Sensor
TW2TPXA	Touchscreen	X	X	Temperature Transmitter
TW2LPXA	LCD / 3 Buttons	X	X	Temperature Transmitter
TW2XPXA	Blank	X	X	Temperature Transmitter

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Schneider Electric Distribution

Product Line Card

Products - By Category

ACTUATORS AND VALVES

Actuators
 Damper Actuators
 DuraDrive
 Valve Actuators
Forta Globe Valve
Actuators Barber-Colman
Actuators
 Electric
 Electric-Hydraulic
Pneumatic
 NEMA 4 / Hazardous
 Location
Erie Damper Actuators
Actuator Accessories
Adaptors
Linkages
Mounting components
 Air Valves
 Ball Valves
DuraDrive VBB/VBS Series
Vx-2000 Series
 Butterfly Valves Rubber lined seats Metal seats
Globe Valves
Vx-7000 Series
    Bronze Trim
Stainless Steel Trim
Flanged Iron Valves
Zone Valves
Erie 2-position PopTop
Erie Modulating PopTop

ELECTRONIC DEVICES

Controllers
Fan Speed
Humidity
Pressure
Relay
Sequence
Temperature
Zone Valve Controller
Lighting Control
Programmable

Occupancy Sensors

Relays - Zone Control
Switches
Air Flow
Pressure

Sensors
Flow Sensors
Gas Sensors
Humidity Sensors
Light Sensors
Temperature Sensors
Room Sensors
Remote Sensors

Transmitters
Room
Remote
Pressure

Thermostats/Controllers
Barber-Colman
Bulb Thermostats
Viconics - Thermostats/Room Controllers
Schneider Electric - Thermostats/Room Controllers

Transmitters
Humidity
Pressure
Temperature

Variable Frequency Drives

PNEUMATIC DEVICES

Gauges
Pressure Gauges
Receiver Gauges

Panel Equipment

Receiver Controllers

Relays

Amplifying Averaging

Diverting

Electric-Pneumatic

Repeating Reversing

Selector

Solenoid Air Valves

Switches, Differential Pressure

 Pressure Regulator

Pneumatic to Electric

Thermostats/Controllers

Barber-Colman Room
 Thermostats 2" x 2" Room Thermostats

Bulb Thermostats

Unitary Temperature

Building Automation/Energy Management - BACnet MSTP,IP/ZigBee wireless/ Modbus/LON -WiFi

Communicating Building Automation/Energy Management
Building Managers
HVAC Controllers
Lighting Controllers
End Devices

Communicating Application Specific Configurable/ Programmable HVAC Unitary controllers

 Rooftop Units
 Heat Pump
 Fan Coil
 Chilled Beam
 Zone Control
 VAV
 VVT

Systems
EcoStruxure Building Expert - Configurable and Programmable
 HVAC Control
 Monitoring
 Lighting Control
 Remote sensors
 Demand based Occupancy
 Water Leak Detection
 CO2
 Humidity
 Wireless
 Cloud Integration
 Trending
 Alarming

Schneider Electric Distribution

Product Line Card

Sourced Products - By Product Catagory

Air Dryers
Kele

Air Flow Measuring and Sensors
Kele

Air Quality Sensors Digital Control Systems (DCS)
Veris

Controllers
Kele

Current Sensors
Veris

Enclosures
Graybar
Unity Mfg.

Filters
Kele

Flow Meters
Data Industrial Onicon

Hardware & Fittings
Kele

Humidity Sensors
ACI
Kele
Veris

IDEC Relays & Components
Lectro Components

Power Meters
Veris
Square D

Power Supplies Functional
APC
Functiona Devices

Pressure Gauges
Kele

Pressure Regulators
Kele

Pressure Switches
Kele

Pressure Transmitters
Veris

Relays / Sockets
Functional Devices
Lectro Components
Veris

Temperature Sensors
ACI
Kele
Veris

Thermostats
Kele

Transformers
APC
Square D
Veris

Tubing
Kele

Wire and Cable
Kele

Sourced Products - By Supplier

ACI

Humidity Sensors
Temperature Sensors
Temperature/Humidity Combination Sensors
Air Products and Controls
Smoke Detectors

Connect-Air International

Wire and Cable

Data Industrial

Flow Meters

Digital Control Systems (DCS)

Air Quality (CO$_2$) Sensors

Dwyer

Pressure Gauges Pressure

Switches
Ergomet
Enclosures

Functional Devices

Power Supplies
Relays

Graybar

Enclosures

Kele

All Products are available and include:
Air Dryers
Kreuter Mfg. Controllers
BAPI
Smoke Detectors
Wire & Cable

Lectro Components

IDEC Relays & Enclosures

Square D

Contactors
Circuit Breakers
Limits and Pump Controls
Meters
Motor Starters
Safety switches
Surge protection
Vehicle Charging Station
VFD's

Unity Mfg.

Enclosures

Veris

Air Quality
CO$_2$ and CO Sensors
Current Sensors Humidity
Sensors Power Meters
Pressure Transmitters
Relays / Sockets
Temperature Sensors
Temperature/Humidity Combination Sensors
Transformers