CDR Room CO₂ and Temperature Sensors (Controllers)

CDR sensors are designed to detect carbon dioxide concentration, and temperature in the room spaces. The CO2 sensor calibrates automatically its measurement. The CDR sensors have linear 0..10V signals outputs relating to CO2-concentration and temperature. The CDRC sensors have 2 x 4..20mA outputs.

The sensors can be used for demand controlled ventilation in buildings. CDR sensors can be installed on a wall surface or on a wall mounting box in dry indoor environment. The CDR sensors come with a number of options such as display, active/passive setpoint, digital output, occupancy detection, push button, lux level measurement and passive resistive sensor elements.

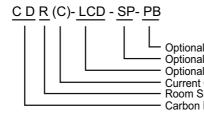
The CDR sensors can also operate as CO2, Temperature or Light Level controllers offering single enclosure measurement and control solutions. Other features include maximum demand control for ventilation plants.



| Model Type | Model | Description |
|-------------|-------------|--|
| | CDR | CDR Room CO ₂ and Temperature Sensor (Controller), 010Vdc Outputs |
| | CDRC | CDR Room CO ₂ and Temperature Sensor (Controller), 420mA Outputs |
| | -LCD | Display Option |
| | -DO | Digital Output Option (2DOs) |
| | -SP | Active Setpoint Option (for control loops) Note 1 |
| | -SPR | Passive Setpoint Option (10kOhm potentiometer) Note 1 |
| | -LL | Light Level Measurement and Occupancy Detection (with digital output) Option Note 1 |
| | -PB | Push Button Interface Option (with digital output) |
| | -TE-NTC10K3 | Passive Temperature Sensor Option |
| Accessories | Model | Description |
| | SW-DCT-USB | Windows Device Configuration Tool Software with Serial USB Interface, 1.8m USB Lead |
| | | Note 1: If -SP/-SPR Option is selected the -LL options are no longer available (and vice versa). |

Note 2: SP and SPR options cannot be fitted at the same time.

Order Codes



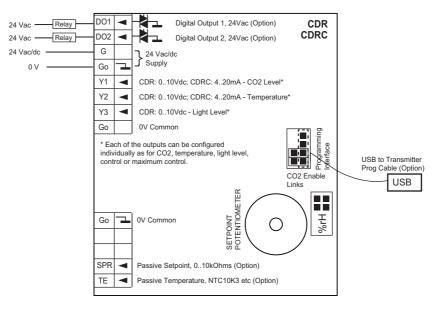
e.g. CDR-LCD-SP-PB CO2 Sensor with 0..10Vdc Outputs, Active Setpoint and Push Button dd On

Optional Add On
 Optional Add On
 Optional Add On
 Optional Add On
 Current Output Option
 Room Space Installation
 Carbon Dioxide (Primary Measurement)

Technical Data Power Supply Power supply 24Vac/dc -10%/+15%, max 1VA **Displays and Interfaces** Option -LCD LCD Display for Showing CO2, Temperature, Light Level (configurable through the tool) Option -SP Active Setpoint Knob (for control setpoint; adjustable min/max limits) Option -SPR Passive Setpoint Knob (10kOhm potentiometer for external equipment) Option -PB Push Button; status available through DO1 or DO2 Signal Outputs **CDR** Transmitters 3 x 0..10Vdc < 5mA; 100k min impedance for 1% accuracy **CDRC** Transmitters 2 x 4..20mA max 250 Ohms 2 x 24Vac Triacs; 2A maximum; requires 24Vac Power Supply Option - DO (DO1 & DO2) Option -PB DO1 or DO2 configurable as 24Vac Triac; requires 24Vac Power Supply (PB option is supplied with DOs fitted) DO1 or DO2 configurable as 24Vac Triac; requires 24Vac Option -LL Power Supply (LL option is supplied with DOs fitted) **Option -SPR** 0..10kOhm Resistance; Common 0V Option - TE-NTC10K3 NTC10K3 Thermistor; Common 0V Sensing Characteristics Carbon Dioxide (CO₂) Range 0...5000ppm CO₂ (Range Adjustable) ± 50ppm + 3% of the reading @ 25°C (@77°F) Accuracy Technology Auto Calibrating; Patented Non-Dispersive Infrared (NDIR) <1% FS Non-Linearity Warm-Up Time <20 seconds **Response Time** 2 minutes Temperature Range 0..50°C (32..122°F) Accuracy ±0.3°C Occupancy; Option -LL Occupancy Infrared Detection (Adjustable Delay) Light Level; Option -LL Range 0..3,000 Lux Passive Temperature; Option -TE-NTC10K3 (Other elements available on request) Range NTC10K3 Thermistor, 10kOhms @ 25°C Accuracy ±0.2°C Connections **Terminal Connections** Solid and Stranded Cable; 55° Angle for Wiring Maximum Size: 0.05 to 1.5mm² (EN ISO) / 14 to 30 AWG (UL) Rising Clamp: Size 2.5 x 1.9mm **Environmental Conditions** Operating Temperature 0°C...+50°C (32..122°F) Humidity 0...95%rh (non-cond.) Storage Temperature -30°C...+70°C (-22..158°F) Humidity 0...95%rh (non-cond.) Standards CE Directive 2004/108/EY CE Conformity EN61000-6-3: 2001 (Generic Emission) EN61000-6-1: 2001 (Generic Immunity).

| | Degree of Protection | IP20 |
|---------|----------------------|--|
| Housing | Housing Material | ABS Plastics, Self Extinguishing, RAL9010 Pure White |
| | Mounting | Wall or Junction Box Mounting |
| | Dimensions | W86 x H120 x D29mm |
| | Weight | 180g |

Wiring Terminals



| DO1 | Digital Output; 24Vac Triac Switching to 0V; max. 2A (option, default Push Button status) | |
|-----|--|--|
| DO2 | Digital Output; 24Vac Triac Switching to 0V; max. 2A (option, default Occupancy status) | |
| G | 24Vac/dc Power Supply | |
| G0 | 0V Common | |
| Y1 | CDR: 010Vdc Analogue Output (Function Selectable, default CO2) CDRC: 420mA (Function Selectable, default CO2) | |
| Y2 | CDR: 010Vdc Analogue Output (Function Selectable, default temp) CDRC: 420mA (Function Selectable, default temp) | |
| Y3 | CDR: 010Vdc Analogue Output (Function Selectable, default LUX) CDRC: Not Available | |
| G0 | 0V Common | |
| G0 | 0V Common | |
| N/A | Not applicable | |
| N/A | Not applicable | |
| SPR | Passive Setpoint, 010kOhms (option) | |
| TE | Passive Temperature. NTC10K3 (option) | |

Wiring Precautions

Switch off the power before any wiring is carried out. If the sensor has the LCD display fitted, unplug the LCD display and then wire the power supply and analogue outputs, if relevant.

After the wiring has been completed; plug-in the display and power up the sensor.

Y1/Y2/Y3 Analogue Output Operation (Modes)

| The analogue outputs V1/V2/V3 | can be configured for the following options. |
|-------------------------------|--|
| | can be configured for the following options. |

| Output Modes | Description | |
|--|--|--|
| CO ₂ Measurement (Default for Y1) | The output represents the CO2 measurement. This this is scaled over 010V (CDR) or 420mA (CDRC). | |
| Temperature Measurement (Default for Y2) | The output represents the temperature measurement. This is scaled over 010V (CDR) or 420mA (CDRC). | |
| Light Measurement | The output represents the light level measurement. This is scaled over 010V (CDR). | |
| Temperature Control | The output represents the temperature control signal. | |
| Light Control | The output represents the light level (LUX) control signal. | |
| Maximum Control | The output represents the maximum of the CO_2 and temperature control signals. Typically used in ventilation plants where the ventilation level is boosted based on high CO_2 concentration or when high room temperature is prevailing (cooling). | |

Note: CDRC transmitters have onlyY1 and Y2 outputs.

DO1/DO2 Digital Output (Options)

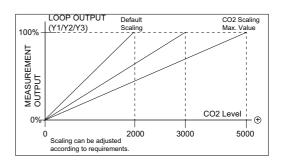
When DO1/DO2 digital output option is fitted (-DO option); this can be used to switch plants on/off based on a configured measurement and setpoint (thermostatic operation). If OC (Occupancy Sensor) option is fitted and then selected, the DO1/DO2 is used to switch output on when occupancy is detected. If the push button option (-PB) is fitted then DO1/DO2 can be set to switch ON when push button is pressed (delayed switch off).

| Digital Output Mode Options | Description (Typical Operation) |
|---|--|
| Network | Not Applicable |
| CO2 Control Mode (e.g. CO2 High Limit Control) | Direct Mode: The DO1/DO2 is switched ON when the CO2 reading exceeds the CO2 Setpoint (1000 ppm default) + CO2 Digital Output Mode Hysteresis. The DO1/DO2 switches OFF when the CO2 reading drops below the setpoint.The control direction is adjustable; reverse / direct. |
| Temperature Control Mode (e.g. Low Temperature Limit) | Reverse Mode: The DO1/DO2 is switched ON when the temperature drops below the Temperature Setpoint - Temperature Mode Hysteresis. The output is switched OFF when the temperature exceeds the Setpoint. The control direction is adjustable; reverse (heating) / direct (cooling). |
| Light Level Control (LUX) Mode (e.g. Low Light Level) (requires -LL option) | Reverse Mode: The DO1/DO2 is switched ON when the light level drops below the Light Level Setpoint - Light Level Digital Output Mode Hysteresis, and switches OFF when the level increases above Setpoint. The control direction is adjustable. |
| Occupancy (requires -LL option) | The DO1/DO2 is switched ON when the occupancy sensor detects occupancy; the output remains on adjustable time "Occupancy Delay Time Setting" plus approx 10 seconds after occupancy has been detected. |
| Push Button (requires -PB option) | If -PB option is fitted, it is possible to have the DO1 (or DO2) on for the "Push Button Delay Time" specified in the settings after the pressing of button is detected. |

CO2 Measurement Output Scaling and Single Point Calibration The CDR measures the carbon dioxide content of the room space and the measurement can be sent to any of the analogue outputs (Y1/Y2/Y3 for CDR, and Y1/Y2 for CDRC).

This output is scaled as default 0% = 0ppm and 100% = 2,000ppm). The scaling can be modified through the Maximum CO2 Scaling parameter.

Furthermore the CO2 measurement reading can be adjusted on site using the Single Point Calibration field.



CO2 Measurement Enable

Temperature Measurement

Output Scaling and Single

Point Calibration

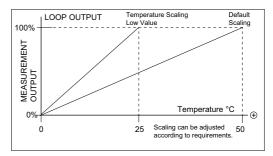
CO2 Measurement Auto-Calibration CO2 measurement is enabled by inserting CO2 link jumpers (two) on the programming header. As default these are fitted (See programming interface section for further details).

The CO2 sensor has automatic auto-calibration feature. This feature monitors the background CO2 level over the calibration period (8 days), and calibrates the CO2 level to the lowest point measured during this period. The sensors are supplied as factory calibrated to the typical background levels. After powering up the sensor, the sensor carries out initial calibration within 7 days after which the CO2 level is calibrated every 8 days automatically.

If the CO2 sensor is fitted in spaces where the background level does not drop close to the typical background level of 400ppm (e.g. greenhouses) it is essential that the auto-calibration feature is disabled during the commissioning.

The CDR measures the room space temperature, and the measurement can be sent to any of the analogue outputs (Y1/Y2/Y3 for CDR, and Y1/Y2 for CDRC).

This output is scaled as default $0\% = 0^{\circ}$ C and $100\% = 50^{\circ}$ C). The scaling can be modified through the Maximum Temperature Scaling parameter. The output can also be scaled in Fahrenheit units.



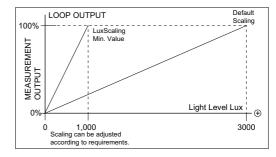
Furthermore the temperature measurement reading can be adjusted on site using the Single Point Calibration field.

Light Level Measurement Output Scaling; Only when -LL Option Fitted

measure the light level. The light level (LUX) measurement is available over any of the analogue outputs (Y1/Y2/Y3 for CDR, and Y1/Y2 for CDRC)

The CDR sensors fitted with -LL option

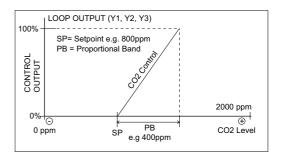
This output is scaled as default 0% = 0LUX and 100% = 3,000 LUX). The scaling can be modified through the Maximum LUX Scaling parameter.



CO2 Control Loop Operation Proportional or PI Control (Reverse/ Direct)

The CO2 measurement can be used for the CO2 control. The calculated control demand is then send to the output Y1, Y2 or Y3 (depending on the corresponding analogue output mode selection).

The CO2 control loop output corresponds to the CO2 setpoint and CO2 proportional band. If configured as Direct Control (typical), then if the CO2 level increases above the setpoint the loop output starts to modulate to 100%. When the CO2 level is the amount of the Proportional Band above



the setpoint the loop output is 100%. The configuration is done via the configuration parameters. The CO2 control loop can also be configured to operate as Proportional + Integral control by changing the Integral Action Time from 0 to a required value.

Boost Function

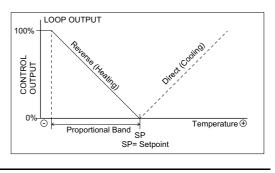
It is possible to boost/override the control output to 100%. This can be achieved via a push button on the device (PB-option). If the Push Button is used then the control output is boosted to 100% for the amount of Push Button Delay Time. When the boost is active the Blue Push Button backlight is lit.

Temperature Control Loop Operation

Proportional or PI Control (Reverse/ Direct)

The temperature measurement can also be used for the temperature control. The calculated control demand is then send to the output Y1, Y2 or Y3 (depending on the corresponding analogue output mode selection).

The temperature control loop output corresponds to the temperature setpoint and the temperature proportional band. If configured as Reverse Control (heating), then if the temperature level drops below



the setpoint the loop output starts to modulate to 100%. When the temperature is the amount of the Proportional Band below the setpoint the loop output is 100%. In the Direct Control mode the output modulates in reverse. The configuration is done via the configuration parameters.

The temperature control loop can also be configured to operate as Proportional + Integral control by changing the Integral Action Time from 0 to a required value.

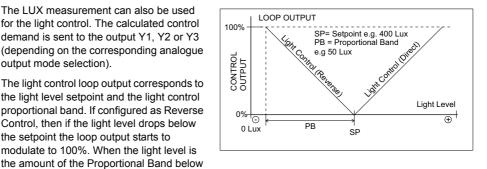
Boost Function

It is possible to boost/override the control output to 100%. This can be achieved via a push button on the device (PB-option). If the Push Button is used then the control output is boosted to 100% for the amount of Push Button Delay Time. When the boost is active the Blue Push Button backlight is lit.

Proportional Control (Reverse/ Direct)

The LUX measurement can also be used for the light control. The calculated control demand is sent to the output Y1, Y2 or Y3 (depending on the corresponding analogue output mode selection).

The light control loop output corresponds to the light level setpoint and the light control proportional band. If configured as Reverse Control, then if the light level drops below the setpoint the loop output starts to modulate to 100%. When the light level is



the setpoint the loop output is 100%. In the Direct Control mode the output modulates in reverse. The configuration is done via the configuration parameters.

The LUX control loop can also be configured to operate as Proportional + Integral control by changing the Integral Action Time from 0 to a required value.

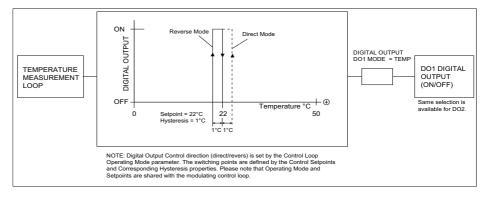
Boost Function

It is possible to boost/override the control output to 100%. This can be achieved via a push button on the device (PB-option). If the Push Button is used then the control output is boosted to 100% for the amount of Push Button Delay Time. When the boost is active the Blue Push Button backlight is lit.

Maximum Control Loop Each of the analogue outputs can also be configured as "Maximum Control". In this case the corresponding output (Y1, Y2, Y3 for CDR or Y1, Y2 for CDRC) takes the maximum of the CO2 Loop and Temperature Loop outputs. This is typically used in demand based ventilation.

> When the digital outputs DO1 and DO2 are fitted they can be configured to work in any of the control modes; CO2 Control, Temperature Control or LUX control; the corresponding digital output is switched ON/OFF based on the corresponding Setpoint property and the corresponding hysteresis. The direction of the operation is also adjustable through Control Loop Operating Mode Parameter.

The diagram below illustrates the operation for Temperature Control Mode. The same concept is applicable for any of the DO1/DO2 control modes (CO2, Temperature, LUX).



Setpoint Knob (-SP option)

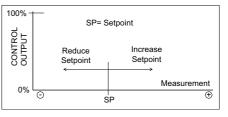
Digital Output DO1/DO2 Control Modes (Optional)

Light Level (LUX) Control

-LL Option Fitted

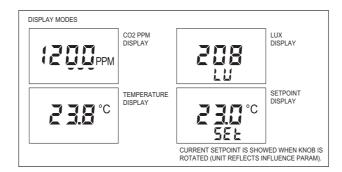
Loop Operation; Only when

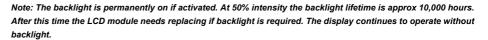
With setpoint knob option it is possible to adjust the current control setpoint. The adjustment shifts the CO2, temperature, or LUX setpoint up or down depending on the configuration parameter settings.



Display (Requires Option -LCD)

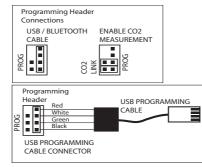
The LCD display shows the temperature, CO2 and LUX readings. The CO2, temperature and LUX readings are primary readings displayed on the "top line". These readings can be rotated. The display has white backlight which is as default switched off. The backlight can be switched permanently on and its intensity can be adjusted.





Configuration Parameters and Programming

The parameter options can be configured using the SCT Sensor Configuration Tool software The SCT Configuration software is connected via the PC USB cable (or via Bluetooth module) to the programming header of the transmitter. In order to connect please remove temporarily the CO2 link jumpers (two), and store them securely to re-fit them after the programming is complete. Then plug-in the USB cable to the programming header as shown on the image below.



The correct process for connecting the sensor via the USB is as follows:-

- Disconnect USB Connector from PC
- Disconnect the Sensor from Power
- Plug-In the 4-Way Connector to the Sensor
- Connect the USB to the PC
- Power Up the Sensor

NOTE: Always disconnect USB from PC before plugging the cable into the sensor. NOTE: The CO2 readings are not available unless the CO2 link jumpers are fitted.

| ppm degrees C %rH | Outputs Triac 1 OFF Triac 2 OFF |
|-------------------------|--|
| degrees C %rH | Join Contraction of the Contract |
| %rH | UFF UFF |
| | |
| LUX | Analogue Output 1 0.0 % |
| | Analogue Output 2 0.0 % |
| degrees C | Analogue Output 3 0.0 % |
| | Analogue Output 4 0.0 % |
| Ohms | |
| | |
| | |
| | |
| | |
| | Product Type: CDR |
| | Unique ID: 20313153-36383238-31303033-31303037 |
| | Firmware Version: 1.21 |
| | |
| | |
| | |
| | Rx] !!090000000# Com Port: |
| | degrees C Ohms Ohms |

| Common Parameters | | |
|-------------------|---|--|
| Parameter Name | Description | |
| Defaults | Reloads the default configuration from the sensor non-volatile memory. Note: All modified settings are lost. | |
| Reset | Performs soft reset of the sensor. Apply after major changes. | |
| Read | Reads the sensor data. | |
| Write | Writes the new settings to the sensor (automatically stored in the non-volatile memory) | |
| COM Port | Select the COM prot for the USB Cable or Bluetooth. USB cable driver mus be installed in order the Serial to TTL connection to operate. | |

| Live IO-View | | |
|----------------------|-----------------------------------|-------------------|
| Parameter Name | Description | Range |
| INPUTS | | |
| CO2 Sensor | CO2 Sensor Reading | 05,000ppm |
| Temperature Sensor | Temperature Sensor Reading | 050°C (32122°F) |
| Humidity Sensor | Humidity Sensor Reading | Not Applicable |
| LUX Sensor | LUX Sensor Reading | 03,000 LUX |
| Setpoint Adjust | Setpoint Adjuster Reading | -500+500 |
| Resistive Input 1 | Not applicable | Not applicable |
| Resistive Input 2 | Not applicable | Not applicable |
| Digital Input 1 | Not applicable | Not applicable |
| Digital Input 2 | Not applicable | Not applicable |
| Occupancy | Occupancy Status | Off - On |
| Push Button | Push Button Status | Off - On |
| Configuration Switch | Bit Switch Status for Each Switch | 0000000 - 1111111 |
| OUTPUTS | | |
| Triac 1 | Digital Output 1 | Off - On |
| Triac 2 | Digital Output 2 | Off - On |
| Analogue Output 1 | Analogue Output 1 | 0100% |
| Analogue Output 2 | Analogue Output 2 | 0100% |
| Analogue Output 3 | Analogue Output 3 | 0100% |

| Control Parameters | | |
|--|--|--|
| Parameter Name | Description | Range |
| TEMPERATURE | | |
| Temperature Loop Operating Mode | Direction of the temperature control loop. | 0 = Reverse Control (Heating) 1 = Direct Control (Cooling) |
| Temperature Control Setpoint | Temperature Setpoint | 0.0150.0°C/°F (Default 20°C) |
| Temperature Proportional Band | Temperature Proportional Band | 1.0150.0°C/°F (Default 50°C) |
| Temperature Control Integral Action | Integral Action time of the temperature control loop. Set to 0 to disable. | 010,000 seconds (Default 0) |
| Temperature Digital Output Mode Hysteresis | Hysteresis for the digital output temperature control function. | 0.1150.0°C/°F (Default 2°C) |
| Temperature Loop Boost Input | Boosts the Control Output to 100% | Select Push Button 1 or 2 |
| HUMIDITY - Not Applicable | | |
| CO2 | | |
| CO2 Loop Operating Mode | Direction of the CO2 control loop. | 0 = Reverse Control 1 = Direct Control |
| CO2 Control Setpoint | CO2 Setpoint | 03250ppm (Default 1,000 ppm) |
| CO2 Proportional Band | CO2 Proportional Band | 105000 ppm (Default = 300 ppm |
| CO2 Control Integral Action | Integral Action time of the CO2 control loop. Set to 0 to disable. | 010,000 seconds (Default 0) |
| CO2 Digital Output Mode Hysteresis | Hysteresis for the digital output CO2 control function. | 105000ppm (Default 100 ppm) |
| CO2 Loop Boost Input | Boosts the Control Output to 100% | Select Push Button 1 or 2 |
| LUX | | |
| Lux Loop Operating Mode | Direction of the LUX control loop. | 0 = Reverse Control 1 = Direct Control |
| Lux Control Setpoint | LUX Setpoint | 03,000 Lux (Default 400 Lux) |
| LUX Proportional Band | LUX Proportional Band | 13,000 Lux (Default 400 Lux) |
| LUX Control Integral Action | Integral Action time of the LUX control loop. Set to 0 to disable. | 010,000 seconds (Default 0) |
| LUX Digital Output Mode Hysteresis | Hysteresis for the digital output LUX control function. | 13,000 Lux (Default 100 Lux) |
| LUX Loop Boost Input | Boosts the Control Output to 100% | Select Push Button 1 or 2 |
| SETPOINT ADJUST | | |
| Setpoint Adjuster Minimum Value | Sets the minimum value for the setpoint (setpoint turned fully anti clockwise) | -5000 (Default -3.0) |
| Setpoint Adjuster Maximum Value | Sets the maximum value for the setpoint (setpoint turned fully clockwise) | 0500 (Default 3.0) |
| Setpoint Value Influence to Control Setpoint | Setpoint Value Influence to Control Setpoint | 0 = No Influence 1 = CO2 Control 2 = Temperature 3 = Humidity (not applicable) 4 = Lux |

| Parameter Name | Description | Range |
|----------------------|---|---------------------------------------|
| SENSOR INPUTS | | |
| CO2 Offset | One Point CO2 Calibration Field | -200+200ppm (Default 0ppm) |
| CO2 AO Scale | Analogue Output Maximum CO2 Scaling | 10005000 ppm (Default = 2,000 ppm) |
| Temperature Offset | One Point Temperature Calibration Field | -3.0+3.0°C/°K (Default 0°C) |
| Temperature AO Scale | Analogue Output Maximum Temperature Scaling | 0.1150.0°C/°F (Default 50°C) |
| Humidity Offset | Not Applicable | |
| Humidity AO Scale | Not Applicable | |
| LUX AO Scale | Analogue Output Maximum Lux Scaling | 10003,000 Lux (Default 3,000 Lux) |
| Occupancy Off Delay | Delay Time Setting for Occupancy | 17200 Seconds (Default 600) |

| Inputs / Outputs Parameter Name | Description | Range |
|--|------------------------------------|--|
| Push Button Off Delay | Delay Time Setting for Push Button | 17200 Seconds (Default 600) |
| DI1 Off Delay | Not applicable | Not applicable |
| DI2 Off Delay | Not applicable | Not applicable |
| OUTPUTS | | · · · · b.b. · · · · · |
| AO1 (Y1) | Analogue Output Y1 Mode | 0 = Network Value (N/A) 1 = CO2 Measurement (Default 2 = Temperature Measurement 3 = Humidity Measurement (N/A 4 = Light Measurement (LUX) 5 = CO2 Control 6 = Temperature Control 7 = Humidity Control 8 = Light Control (LUX) 9 = Maximum Control |
| AO2 (Y2) | Analogue Output Y2 Mode | 0 = Network Value (N/A) 1 = CO2 Measurement (Default) 2 = Temperature Measurement 3 = Humidity Measurement (N/A) 4 = Light Measurement (LUX) 5 = CO2 Control 6 = Temperature Control 7 = Humidity Control 8 = Light Control (LUX) 9 = Maximum Control |
| AO3 (Y3) Note: Not available with CDRC. | Analogue Output Y3 Mode | 0 = Network Value (N/A) 1 = CO2 Measurement (Default 2 = Temperature Measurement 3 = Humidity Measurement (N/A 4 = Light Measurement (LUX) 5 = CO2 Control 6 = Temperature Control 7 = Humidity Control 8 = Light Control (LUX) 9 = Maximum Control |
| DO1 | Digital Output 1 Mode | 0 = Network Value ((N/A) 1 = CO2 Relay 2 = Temperature Relay 3 = Humidity Relay (N/A) 4 = Light Relay (LUX) 5 = Occupancy Relay 6 = Push Button |
| DO2 | Digital Output 2 Mode | 0 = Network Value (N/A) 1 = CO2 Relay 2 = Temperature Relay 3 = Humidity Relay (N/A) 4 = Light Relay (LUX) 5 = Occupancy Relay 6 = Push Button |

| Parameter Name | Description | Range |
|-------------------|---|--|
| DISPLAY | | |
| Temperature Units | Temperature Unit Selection | 0 = Celsius 1 = Fahrenheit |
| Language | Language Selection (for display rH vs FH) | Not Applicable |
| Display Mode | Display Mode | 0 = Rotate Installed 1 = CO2 Only 2 = Temperature Only 3 = LUX Only |
| LCD brightness | Brightness of the LCD | Off - 10% to 100% |

COMMS (not applicable)

Parameter Storage

The configuration parameters are stored in the non-volatile memory. The SCT (Sensor Configuration Tool) software will automatically store the register values on the non-volatile permanent memory after the changes are carried out.

Dimensions

