

# CD & Hx U Series Sensors



## **Robust, attractive and cost-effective sensors for your various sensing needs**

We've updated the Johnson Controls line of analog sensors to provide an assortment of attractive benefits. Featuring various configurable sensing capabilities that include CO2 levels, temperature and relative humidity, these redesigned models feature a clean, modern look. Both wall and duct sensors with or without displays are available.

The power behind **your mission**



The CD & Hx U Series Sensors include three powerful sensors that perform optimally, each with a unique application:



### CD-P Series Duct Carbon Dioxide Transmitter

Ensures optimum measurement stability when continually monitoring either supply or return air.

**Key Features:**

- A highly accurate and reliable nondispersive infrared sensor
- A modern, low-profile enclosure with a gasketed, hinged cover
- Dual channel optics
- LTA signal processing technology
- Optional resistive temperature sensor output with LCD display



### CD-W Series Room Carbon Dioxide Transmitter

Ensures optimum measurement stability for both periodic and constant occupancy applications.

**Key Features:**

- A highly accurate and reliable nondispersive infrared sensor
- A stylishly attractive enclosure
- Dual channel optics
- LTA signal processing technology
- Versatile field-selectable output signal
- Programmable CO2 measurement span
- Available with or without a display



### Hx-U Series Outdoor Humidity and Temperature Transmitter

Ideal for environmental monitoring and control systems that require high performance and stability.

**Key Features:**

- Combines digital linearization and temperature compensation
- A thermoset polymer-based capacitance humidity sensor
- A curve-matched negative temperature coefficient thermistor temperature sensor
- A sleek, easy-to-install polycarbonate weatherproof enclosure
- Five measurement variables

You'll enjoy the same reliability and durability that our analog sensors always provide, but with a new modern look – and all backed by the Johnson Controls reputation for quality HVAC technology. So update your analog. **Contact your Johnson Controls representative for details.**

Technical specifications					
CD-P		CD-W	Hx-U		
Gas type detected	CO <sub>2</sub>	CO <sub>2</sub>	Sensor type	RH sensor	Thermoset polymer-based capacitive
Sensor type	Dual channel non-dispersive infrared (NDIR)	Dual channel non-dispersive infrared (NDIR)		Temperature sensor	NTC thermistor
Sensor accuracy	±30 ppm + 3% of measured value	±30 ppm + 3% of measured value	Measurement range	RH	0% RH to 100% RH
Measurement range	0 ppm to 2000 ppm (default), adjustable 1000 ppm to 10,000 ppm	0 ppm to 2000 ppm (default), adjustable 1000 ppm to 10,000 ppm		Dry bulb temperature	-30°C to 50°C (-22°F to 122°F)
			RH	±2% RH, 10% RH to 90% RH @ 25°C	
Display range	0 ppm to 10,000 ppm, 0°C to 50°C (32°F to 122°F)	0 ppm to 10,000 ppm, 0°C to 50°C (32°F to 122°F)	Sensor accuracy	Dry bulb temperature (T)	±0.2°C (±0.4°F) / 0°C to 50°C (32°F to 122°F)
				Dewpoint temperature (Td)	±1.0°C (±1.8°F) @ 40% RH / 25°C
Dimensions, H x W x D	3.9 in. x 4.6 in. x 2.1 in. (100 mm x 116 mm x 54 mm)	5.45 in. x 3.33 in. x 1.05 in. (138.63 mm x 84.5 mm x 26.75 mm)	Dimensions, H x W x D	Wet bulb temperature (Tw)	±1.0°C (±1.8°F) @ 50% RH / 25°C
				Enthalpy (En)	±2 kJ/kg (±1 BTU/lb) @ 50% RH / 25°C

**For more information on the new CD & Hx U Series Sensors, please visit [JohnsonControls.com](https://www.johnsoncontrols.com)**

The power behind your mission

