

Product Catalog



THE GAS DETECTION EXPERTS.

GAS DETECTORS

Indoor Public Spaces – DCV & VRF Applications

- » Low profile to reduce noticeability in public spaces like hotels, schools, offices, etc.
- » Internal sensor for monitoring Refrigerants, Carbon dioxide, Carbon monoxide, Formaldehyde, Methane, TVOCs, Particulates (PM2.5 or PM10) or RH & Temperature
- » 4-20 m A, 0 - 10V or 2 - 10V analog output or user selectable in the field Modbus® RS-485 or BACnet® MS/TP output signal to BAS
- » One SPDT dry contact relay rated 30 volts, 2 amps (some models it is an option)
- » Internal audible alarm (some models it is an option)
- » USB port for configuration changes and firmware upgrades
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life



cGas Detector Carbon Dioxide (1 channel)

- » Single internal gas sensor: CO₂ available in %vol or ppm range
- » 4-20 m A, 0 - 10V or 2 - 10V analog output or user selectable in the field Modbus® RS-485 or BACnet® MS/TP output signal to BAS
- » Optional one 2-amp relay and internal audible alarm
- » Optional RH & Temperature package
- » USB port for configuration changes and firmware upgrades
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life



cGas Detector Infrared Refrigerant (1 channel)

- » Single internal gas sensor: NDIR, dual beam technology, %vol or ppm range
- » 4-20 m A, 0 - 10V or 2 - 10V analog output or user selectable in the field Modbus® RS-485 or BACnet® MS/TP output signal to BAS
- » One 2-amp relay and internal audible alarm
- » Optional Low Temperature package
- » USB port for configuration changes and firmware upgrades
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life



cGas Detector Solid State Refrigerant (1 channel)

- » Single internal gas sensor: solid state, ppm range
- » 4-20 m A analog output or user selectable in the field Modbus® RS-485 or BACnet® MS/TP output signal to BAS
- » Optional one 2-amp relay and internal audible alarm
- » Optional Low Temperature package
- » USB port for configuration changes and firmware upgrades
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life



cGas Detector Digital (2 channels)

- » Internal electrochemical and/or combustible gas sensors
- » User selectable in field Modbus® RS-485 or BACnet® MS/TP output signal
- » Optional one 2-amp relay and internal audible alarm
- » Optional Low Temperature package
- » USB port for configuration changes and firmware upgrades
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life
- » 4-wire VAC/VDC



cGas Detector Analog (1 channel)

- » Internal electrochemical or combustible gas sensor
- » 4-20 m A analog output
- » One 2-amp relay (some models it is an option)
- » Internal audible alarm (some models it is an option)
- » Optional Low Temperature package
- » Precalibrated, Plug & Play Smart Sensor replacement at end of life
- » USB port for configuration changes and firmware upgrades
- » 3-wire VDC or 4-wire VAC



LPT Low Power Transmitter (1 channel)

- » Single internal sensor: CO, NO₂, NH₃, O₂, Cl₂ or O₃
- » 4 - 20 mA output, single LED indicator
- » 2-wire loop or 3-wire VDC or 4-wire VAC

CONTROLLERS



FCS Flexible Control System (4, 8, 32 or 128 channels)

- » Analog and/or digital transmitter combinations
- » Four 5-amp SPDT relays, audible alarm, resistive touch graphic LCD colour display, extensive menu system with priorities and logic control, includes data logging
- » Modbus® RS-485 output or BACnet® MS/TP output for communication with a Building Automation System (BAS)
- » 90 - 240 AC line voltage power supply



cGas-SC Self Contained Controller (3 channels)

- » Flexible internal and/or remote gas sensor options
- » User selectable in field Modbus® RS-485 or BACnet® MS/TP output signal
- » User selectable 4 - 20 mA outputs, 0 - 10V or 2 - 10V output (optional)
- » Two 5-amp SPDT relays, audible alarm, LCD display, push button menu system with priorities and logic control
- » USB port for configuration changes and firmware upgrades
- » Pre-calibrated Plug & Play Smart Sensor replacement at end of life
- » 24 VAC/VDC or optional 90 - 240 AC line voltage power supply

SPECIAL APPLICATIONS



cGas VLT Vent Line Ammonia Transmitter

- » Internal catalytic Ammonia (NH₃) sensor, 0- 3% vol range
- » One 2-amp SPDT relay, audible alarm, LCD display
- » 4 - 20 mA or 0 - 10 VDC output signal
- » 3-wire VDC or 4-wire VAC



DCC-MRI Oxygen Sampling System

- » Internal Oxygen sensor 0-25% volume
- » One 5-amp SPDT relay, audible alarm, LCD display, menu system, one configurable 4-20 mA output, Silence push button
- » Blocked flow alarm, adjustable flow meter, sample draw pump
- » 24 VAC power supply



PRU-24-A or PRU-24-D Sample Draw System

- » Safely sample air in difficult or hard to access areas
- » Compatible with many CET gas detectors
- » Includes a sample pump, adjustable flow meter, in-line particulate filter with a water tight, polycarbonate enclosure
- » 24 VAC or VDC operating power
- » Not classified for hazardous areas or combustible / explosive gases



DCC-SD Sample Draw System

- » Single internal electrochemical or solid state refrigerant gas sensor
- » One 5-amp SPDT relay, audible alarm, display, menu system, one configurable 4-20 mA output, Silence push button
- » Blocked flow alarm, adjustable flow meter, sample draw pump
- » 24 VAC power supply



CXT2 Explosion-Proof Transmitter (1 channel)

- » Single internal or remote sensor, electrochemical, infrared, catalytic or PID
- » For use in hazardous rated areas, Class 1, Div 1 & 2, Groups A, B, C, D
- » Temperature code T4
- » 4 - 20 mA output (CXT2-A) or Modbus® RTU output (CXT2-D)
- » Three Form C SPDT 5A @ 30 VDC or 240 VAC relays (digital model)
- » Graphic LCD that changes colour on channel status, 30 minute trends or bar graph
- » Magnetic touch pads, non-intrusive calibration with magnetic wand
- » Smart Sensor Technology, sensor life indicator
- » Optional Arctic Heater Smart Sensors operates down to -55°C (-67°F)

Strobes and Horns



Calibration Kit

- » Tools used for common field and shop calibration of CETCI products
- » Fittings/adapters to accommodate various cylinder and sensors sizes
- » Comes in a durable, weather resistant, hard plastic carrying case
- » Does not include gas cylinders



The black, standard water and dust tight polycarbonate enclosure has a hinged, secured door and is corrosion resistant. The interior is copper coated to reduce RF interference. With the (optional) standard Splash Guard factory installed over the sensor vent, the enclosure is IP54 rated and protected in wash down or water spray applications.



Metal Protective Guards

- » Large size for controllers, smaller size for transmitters
- » Standard models protect against impact, theft or vandalism
- » Splash guard model protects sticky gas sensors in spray down applications

INDOOR AIR QUALITY (IAQ) MONITORS



YESAIR 8-Channel IAQ Monitor

- » 8 sensor capacity including RH and temperature
- » More than 30 plug & play gas sensor choices
- » PM2.5 or PM10 particulate sensor option
- » Data logging to SD memory card with YESViewer Logger Package and Software
- » Lightweight pump model or diffusion model
- » Contoured and comfortable to hold, portable



YES Plus LGA 15-Channel IAQ Monitor

- » 15 sensor capacity including RH and temperature
- » More than 30 plug & play sensor choices
- » Data logging to SD memory card
- » Internal sample pump with inline filter
- » Large, backlit, multi-line LCD display
- » Rugged ABS enclosure with swivel handle that also acts as a stand support



YESAIR with Particulate Sensor

- » PM2.5 or PM10 $\mu\text{g}/\text{m}^3$
- » Externally mounted on the enclosure
- » Rechargeable nickel hydride battery pack
- » Detects smoke, dust, pollen, spores, etc. particle concentrations in air



YESAIR Incubator Verification Monitor

- » Available with CO₂ and/or O₂ plus RH and temperature
- » Remote sample probe to measure target gas
- » Remote sampling probe for measuring RH & temperature
- » Easy entry into incubator port
- » Data logging to SD memory card with YESViewer Logger Package and Software
- » Lightweight, contoured, comfortable to hold, portable

Critical Environment Technologies is a leader in the design, manufacture and service of fixed gas detection systems, including self-contained systems, controllers and transmitters (gas detectors), and Indoor Air Quality (IAQ) monitoring instruments. All of our standard, fixed gas detectors come in a water/dust tight enclosure and our products conform to CSA, UL, CE, FCC and IP54 standards.

We offer sensor technologies that detect many different types of hazardous gases in a wide range of applications. Common gases are: Carbon Monoxide, Carbon Dioxide, Nitrogen Dioxide, Nitric Oxide, Ammonia, Chlorine, Ozone, Oxygen, Refrigerants and combustible gases like Methane, Hydrogen and Propane. Applications include commercial, institutional, municipal and light industrial markets worldwide. Many applications are for vehicle exhaust, but areas of specialization include refrigeration plants, indoor swimming pools, water treatment plants, ice arenas, wineries, airports, hotels, fish farms, greenhouses, battery charging rooms, food processing plants, and more.

Our products are sold through a network of authorized distributors around the world. Our mission is **SAFER AIR EVERYWHERE.**

PERIPHERAL DEVICES



LNK-AI Analog Input

- » Adds four 4 - 20 mA analog inputs to a gas detection system
- » Scaling and zoning capabilities supported by the FCS Controller
- » Power LED indicator
- » Modbus RS-485 RTU communication



LNK-AO Analog Output

- » Adds four 4 - 20 mA analog outputs to a gas detection system
- » Scaling and zoning capabilities supported by the FCS Controller
- » Power LED indicator
- » Modbus RS-485 RTU communication



LNK-XT

- » Extends transmission range of the Modbus® network, boosts communication signal strength
- » Power LED indicator
- » Modbus RS-485 RTU communication



RDM Remote Display Module

- » View gas readings and system statuses in an alternate location
- » LCD and LED indicators, horn/strobe drive output
- » Internal audible alarm, optional side mounted strobe (Option -L2)
- » Modbus RS-485 RTU communication



RPS-24VDC Remote Power Supply

- » Provides a renewed amount of power to compensate for voltage drops in large fixed system applications and/or very long wire runs
- » Converts 90 - 240 VAC power to 24 VDC power



RLY-4 and RLY-8 Remote Relays

- » Increases the number of available relays and horn/strobe drive outputs
- » User selectable gas alarm activation level for each relay
- » User selectable "Failsafe" and latching operation
- » ON/OFF Delay configurations
- » Modbus RS-485 RTU communication

LIST OF FEATURES AND COMPATIBLE REMOTE & PERIPHERAL DEVICES BY PRODUCT

	CONTROLLERS				TRANSMITTERS							
	FCS-4	FCS-32 FCC-32 FCS-128	cGas-SC	DCC-SD DCC-MRI	CGAS-A	CGAS-D	CGAS-AP	CGAS-DP	LPT	CGAS VLT	CXT2-A	CXT2-D
FEATURES / OPTIONS	Modbus® Output to BAS	●	●	●		incl		incl				incl
	BACnet® Output to BAS	●	●	●		incl		incl				
	# of Internal Analog Inputs included or -AI or -2AI	4	4 or 8	up to 3								
	# of Internal Analog Outputs included or -AO or -2AO	4 or 8	4 or 8	optional	1 incl							
	# of Internal Analog Inputs + Analog Outputs -AIAO	4 ea	4 ea									
	Data Logging	incl	incl								incl	incl
	Door Lock & Keys -DL	●	●									
	Internal Relay	4 incl	4 incl	2 incl	1 incl	model dependant if incl or optional				1 incl		3 incl
	Plug & Play Smart Sensors			✓	✓	✓	✓	✓			✓	✓
	RH & Temperature Sensor -RHT			●	●	●	●	●				
	Internal Audible Alarm	incl	incl	incl	incl	model dependant if incl or optional				incl		
	Water Tight Buzzer -WA	●	●	●								
	Loud Buzzer Option -A	incl	incl	●	incl							
	Low Temperature Package -LT			●	●	●						
	Internal Heater -H, -IH or -AH	●	●								●	●
	Mounted Strobe Top Option -L or Side -L2	top	top	side								
	Manual Shutoff Switch -SW	●	●									
	Splash Guard -S			●	●	●			●	incl	●	●
REMOTE DEVICES	ESH-A or other Remote Sensor			✓	✓	✓	✓	✓			✓	✓
	LNK-AI Analog Inputs	✓	✓									
	LNK-AO Analog Outputs	✓	✓									
	LNK-XT Network Extender		✓									
	RDM Remote Display	✓	✓									
	Remote Power Supply	✓	✓									
	Remote Strobe/Horn	✓	✓	✓	✓	●	●	●		✓		✓
	RLY-4 Remote Relays	✓	✓									
	RLY-8 Remote Relays	✓	✓									

incl indicates feature is included with the product

Checkmarks indicate compatible remote devices

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