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MANUALS
DATA SHEETS
WIRING DIAGRAMS
ENGINEERING SAMPLE SPECS
PRODUCT SPECIFICATIONS



APPLICATIONS



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Gas Detection Experts



A CETCI Product
Family Brochure



www.critical-environment.com

FIXED GAS DETECTORS - CONTROLLERS

FIXED GAS DETECTORS - TRANSMITTERS



FCS Flexible Control System (up to 8 or up to 128 channels)
 » Analog and/or digital transmitter combinations
 » Four 5-amp SPDT relays, audible alarm, resistive touch 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



QCC Quad Channel Controller (up to 4 channels)
 » Analog and/or digital transmitter combinations
 » Three 5-amp SPDT relays, audible alarm, LCD display, extensive menu system, logic control, optional analog output with 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



DCC Dual Channel Controller (1 or 2 channels)
 » Flexible internal and/or remote gas sensor options
 » Two 5-amp SPDT relays, audible alarm, LCD display, menu system, two 4-20 mA outputs for VFD control, one configurable 4-20 mA input and a Silence push button
 » 24 VAC/VDC or 90 - 240 AC line voltage power supply



SCC Self-Contained Controller (1 or 2 channels)
 » Internal electrochemical CO and/or NO₂ and/or one remote combustible sensor
 » Two 5-amp SPDT relays, audible alarm, LED indicators, optional 4-20 mA input
 » 24 VAC/VDC or 90 - 240 AC line voltage power supply



LPT Low Power Transmitter (1 channel)
 » Internal Carbon Monoxide (CO) or Nitrogen Dioxide (NO₂) sensor
 » 4 - 20 mA output, single LED indicator
 » 2-wire loop or 3-wire VDC or 4-wire VAC



LPT-A Analog Transmitter (1 channel)
 » Electrochemical or solid state sensor (internal) or combustible (internal or remote)
 » One 2-amp SPDT relay, audible alarm, graphic LCD display
 » 4 - 20 mA or 0 - 10 VDC output signal
 » 3-wire VDC or 4-wire VAC/VDC



LPT-P Digital Car Park Transmitter (up to 3 channels)
 » Internal CO and/or NO₂ sensor and/or one combustible remote sensor
 » Graphic LCD display
 » Modbus® RS-485 output signal
 » 4-wire VDC



LPT-M Digital Modbus Transmitter (up to 3 channels)
 » Electrochemical (internal) and/or combustible remote sensor options
 » Modbus® RS-485 output signal
 » One 2-amp SPDT relay, audible alarm, graphic LCD display
 » 4-wire VAC/VDC



LPT-B Digital BACnet® Transmitter (up to 3 channels)
 » Electrochemical (internal) and/or combustible remote sensor options
 » BACnet® MS/TP output signal
 » One 2-amp SPDT relay, audible alarm, graphic LCD display
 » 4-wire VAC/VDC



ART Infrared Refrigerant Transmitter
 » Single non-dispersive, infrared refrigerant sensor
 » Accurate, low level leak detection with no cross interference from non-refrigerant gases
 » 4 - 20 mA output or Modbus® RTU output
 » One 1-amp relay, bright LED display, audible alarm, 24 VAC/VDC



CXT Explosion-Proof Transmitter
 » Single electrochemical, infrared or catalytic sensor
 » 4 - 20 mA output or Modbus® RTU output
 » Three 5-amp relays (optional), audible alarm, large graphic LCD, remote sensor available
 » Programmable heaters for sensor and electronics for low temperature operation
 » Class 1, Div 1 & 2, Groups A, B, C, D



AST-IS Carbon Dioxide (CO₂) Transmitter
 » Single non-dispersive infrared CO₂ sensor
 » 4 - 20 mA or 0 - 10 VDC output
 » Standard and Industrial models available, features vary depending on model



Calibration Kit
 » Calibration tools used for common field and shop calibration of new and old CETCI products; does not include gas cylinders
 » Fittings/adapters to accommodate various cylinder and sensors sizes
 » Comes in a durable, weather resistant, hard plastic carrying case



Our **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) **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
 » 16 gauge, clear anodized metal protective guard
 » Larger size for controllers
 » Smaller size for analog & digital transmitters

FIXED GAS DETECTORS - SPECIALIZED



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



DCC-SD Sample Draw System
 » Single internal electrochemical, solid state refrigerant or combustible sensor
 » 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



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

WE CARE ABOUT YOUR AIR!

INDOOR AIR QUALITY (IAQ MONITORS)



YESAIR 8-Channel Air Quality Monitor
 » 8 sensor capacity including RH and temperature
 » More than 30 plug & play sensor choices
 » Data logging to SD memory card
 » Lightweight pump model or diffusion model
 » Contoured and comfortable to hold, portable



YES Plus LGA 15-Channel Air Quality 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



OPTIONAL REMOTE SENSOR
YESDUST Particulate Sensor
 » May be used with the YESAIR or YES Plus LGA
 » Rechargeable nickel hydride battery pack
 » Counts particulates between 1 and 10 microns
 » Highly sensitive, focused, infrared light beam



YES Viewer Logger Package & Software
 » 2 GB SD memory card with reader to store or transfer data
 » USB cable and YES Viewer Software
 » Analyze and graph data
 » Compatible with YESAIR and YES Plus LGA

List of Available Options and Compatible Remote & Peripheral Devices by Product

	FEATURES / OPTIONS														REMOTE & PERIPHERAL DEVICES									
	Modbus® Output	BACnet® Output	2 Internal Analog Outputs & Data Logging (L-AO)	4 Internal Analog Outputs (L-AO) or 8 Analog Outputs (L-AO)	4 Internal Analog Outputs (L-AO)	4 Internal Analog Inputs (L-AI) or 8 Analog Inputs (L-AI)	Water Tight Buzzer (L-WB) (door mounted)	Loud Buzzer (L-LB) (door mounted)	Top Mounted Strobe (L-TS)	Manual Shutoff Switch (L-SW)	Internal Heater (L-IH)	Door Lock & Key (L-DL)	Splash Guard (L-SG)	Remote Display (DCC-RDM)	Remote Audible Alarm (RAA-90 and RAA-90-W)	Combo (various models)	ESP-A Remote Sensor (PPS-24VDC)	Remote Power Supply (PPS-24VDC)	Remote Relay (RR-4)	Remote Relay (RR-8)	LIN-AI Analog Input	LIN-AO Analog Output	LIN-XT Network Extender	
CONTROLLERS																								
FCS / FCC-8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QCC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DCC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SCC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DCC-SD																								
DCC-MRI																								
TRANSMITTERS																								
LPT																								
LPT-A																								
LPT-A-VLT																								
LPT-P	incl																							
LPT-M	incl																							
LPT-B		incl																						
ART	•																							
AST-IS	•																							
CXT	•																							

Critical Environment Technologies Canada Inc. (CETCI) is a leading global manufacturer 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 with a copper coated interior to reduce RF interference. Our products conform to CSA, UL, CE, FCC and IP54 standards.

We offer a variety of 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, battery charging rooms, food processing plants, and more.

CETCI products are sold through a network of authorized distributors around the world.