



EC20x Multipoint Electrochemical Gas Detection Cabinet

DOD Technologies

The EC20x Multipoint Electrochemical Cabinet is the next generation of our EC20 cabinet system. It offers the convenience of electrochemical monitoring with the sample distance of larger TGMS's.

This completely customizable system can accommodate up to 20 single point detectors - depending on the application. The cabinet can extract samples from up to 450 feet away with its powerful sample draw pump. Redundant pumps and power supply comes standard to ensure performance and reliability.

Optional Modbus communication protocol provides a remote means to monitor the entire system.



Extractive gas detectors and sensors (sold separately) available for factory installation

CONTINUOUS



MONITORING

HYDROGEN

H₂

PPM SENSOR

LOW



MAINTENANCE

HOUSES UP TO



20 DETECTORS

Features & Benefits

Features	Benefits
Expanded Cabinet Size	Accommodates up to 20 electrochemical gas detectors standard including PS-7, PS-7M or GTD-5000, sold separately
Backup Pumps	Four backups for improved performance/reduced maintenance
Redundant Power Supply	Helps ensure continuous operation and reduces downtime
AUTO Flow Control	Sample flow rate held constant for stable detection
Large LCD Display	Device status can be read at-a-glance
Easy Maintenance	Sensors and flow path can be changed without tools
Smart Sensors	Error alarm issued if sensor for different gas loaded
Communication Capabilities	Optional PoE Modbus communication for remote monitoring

Detectable Gases

Electrochemical

Ammonia (NH ₃)	0-100 ppm
Arsine (AsH ₃)	0-0.25 ppm
Carbon Monoxide (CO)	0-250 ppm
Chlorine (Cl ₂)	0-5 ppm
Chlorine Trifluoride (ClF ₃)	0-1 ppm
Diborane (B ₂ H ₆)	0-0.5 ppm
Dichlorosilane (Si ₂ H ₂ Cl ₂)	0-25 ppm
Disilane (Si ₂ Cl ₂)	0-25 ppm
Fluorine (F ₂)	0-5 ppm
Germane (GeH ₄)	0-1 ppm
Hydrogen Bromide (HBr)	0-10 ppm
Hydrogen Chloride (HCl)	0-5 ppm
Hydrogen Chloride (HCl)	0-25 ppm
Hydrogen Fluoride (HF)	0-10 ppm
Hydrogen Selenide (H ₂ Se)	0-25 ppm
Hydrogen Selenide (H ₂ Se)	0-50 ppm
Ozone (O ₃)	0-1 ppm

Electrochemical (continued)

Phosphine (PH ₃)	0-1 ppm
Phosphorus Trifluoride (PF ₃)	0-10 ppm
Silane (SiH ₄)	0-5 ppm
Silane (SiH ₄)	0-25 ppm

Electrochemical with Pyrolyzer

Ammonia (NH ₃)	0-100 ppm
Arsine (AsH ₃)	0-100 ppm

Galvanic Cell

Oxygen Depletion (O ₂)	0-25 vol%
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Hot-wire Sensor

Hydrogen (H ₂)	0-500 ppm
Hydrogen (H ₂)	0-1,000 ppm

Replacing PS-7 Sensor Units

A variety of replacement [PS-7 sensors are available to order at DODtec.com](https://www.dodtec.com/products/ps-7-sensors) or by contacting us.



1 Remove the main unit from the base.



2 Remove back cover of the main unit.



3 Remove old sensor unit and load the new sensor unit.



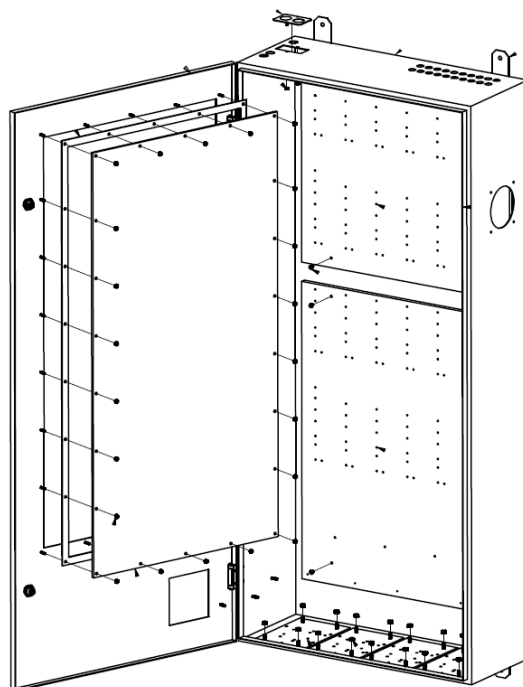
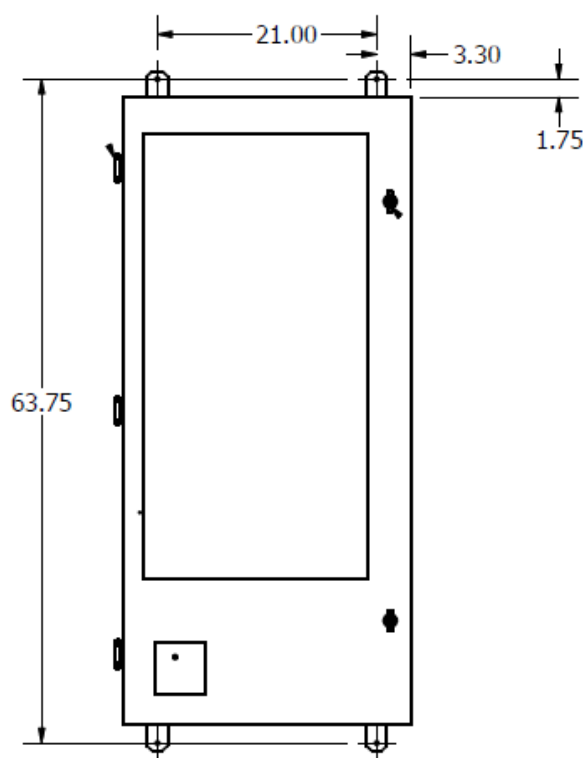
4 Mount main unit on the base & press test switch to confirm operation.

Specifications

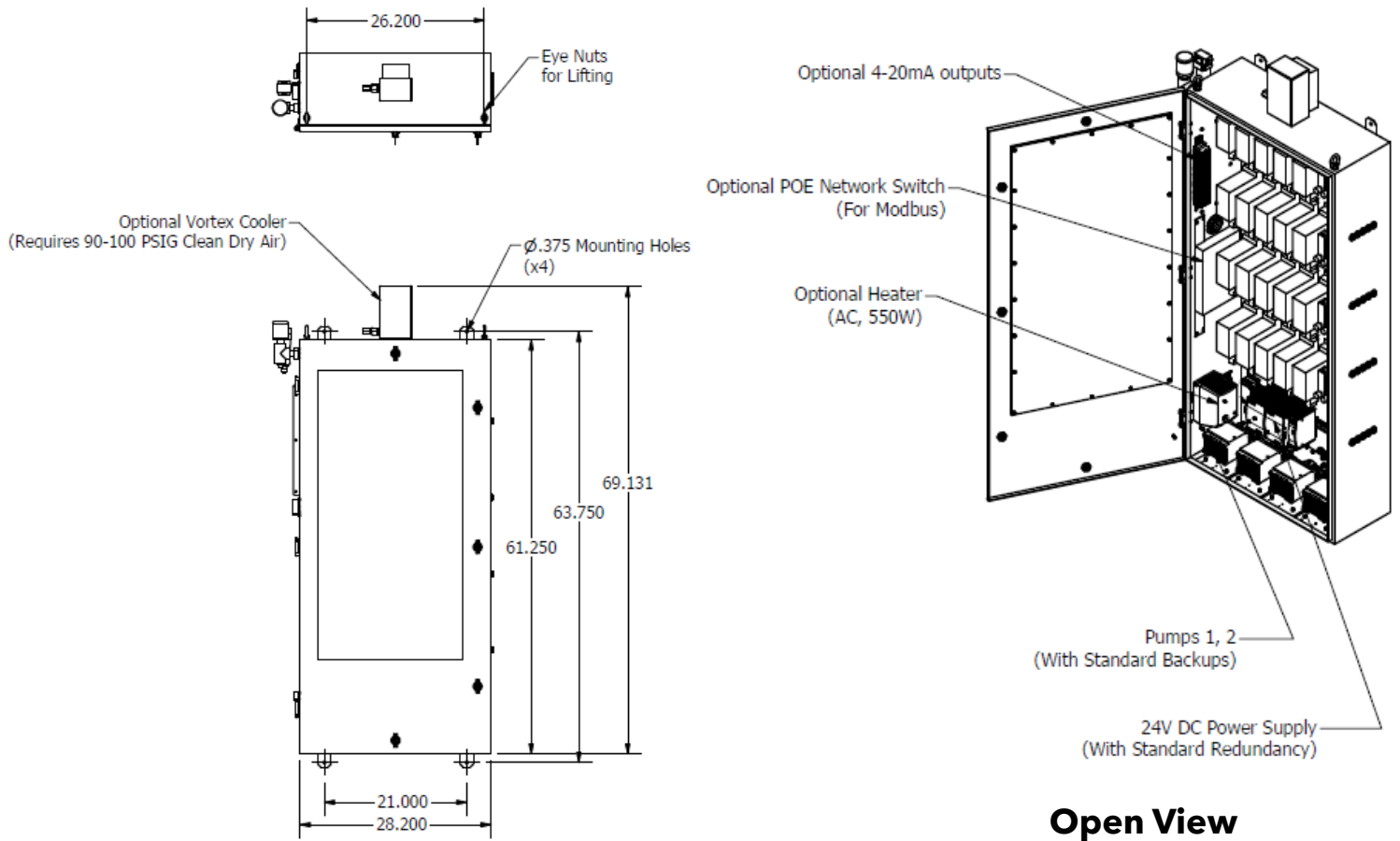
Model	EC20x
Detection Principles	Electrochemical, hot-wire, galvanic cell
Monitoring Points / Types *	Up to 20 points / Cosmos PS-7 , PS-7M or GTD-5000
Sample Distance/Tubing	450 ft. (137m) Max - 1/4" OD x 3/16" ID Teflon FEP tubing
Exhaust Tubing	25 ft. (7.6 m) Max - 3/8" OD x 1/4" ID Polyethylene tubing
Relay Outputs	Programmable low and high-level faults
Analog Outputs	4-20mA (500 ohm Max Independence)
Communication	Ethernet, DeviceNet, Modbus
Operating Temperature	40°F to 104°F / 4°C to 40°C
Operating Voltage	110VAC (50/60 Hz) or 230VAC (50/60 Hz)
Power Consumption	Less than 3 Amps
Enclosure	Powder coated steel (standard), Powder coated stainless steel (NEMA 4X version)
Dimensions	63.75"H x 27.6"W x 11.5"D (1619.25mm x 701mm x 292mm)
Weight	Approx. 150 lbs. (68.04 kg) - cabinet only Approx. 270 lbs. (122.5 kg) - with product, crated 72"x 48"x 24"

* Detectors sold separately but available for factory install

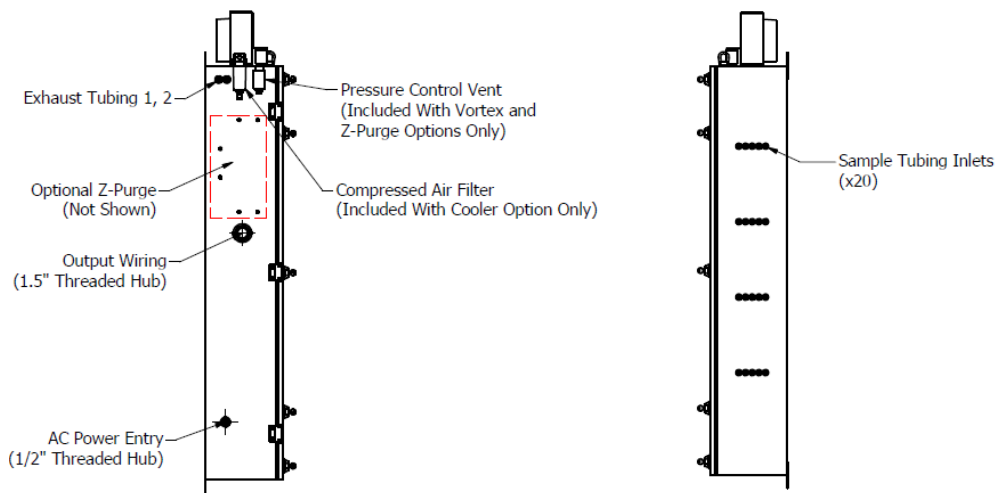
Dimensions (standard version)



Dimensions (NEMA 4X indoor/outdoor version)



Top & Front Views



Side Views



REALIBILITY & SUPPORT

DOD Technologies is the global leader in low-level gas detection systems and solutions. We understand the importance of keeping your business operational and know that false alarms can cost millions of dollars in lost productivity.

We offer a comprehensive line of ChemLogic® gas detection products, engineered to an enhanced standard of accuracy and reliability. Our worldwide network of knowledgeable service engineers are also ready to assist you with a passion for gas detection. The DOD Technologies portfolio includes fixed systems, portable gas detectors, controllers, systems integrations and on-site field services.

For more information, or to order, please visit us at DODtec.com.



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