



		LPT	LPT-A	LPT-P	LPT-M	LPT-B	CGAS-A	CGAS-D	CGAS Public Spaces	
General	Display	No	Yes - grey border	Yes - white border	Yes - green border	Yes - yellow border	Yes	Yes	Yes	
	Enclosure	ABS/Polycarbonate, black, copper coated interior to reduce RF interference, IP54 rated with splash guard (Option -S)							Polycarbonate, white, low profile	
	Internal Buzzer	No	Yes	No	Yes	Yes	No	No	No	
	Communication	Analog	Analog	Digital (Modbus®)	Digital (Modbus®)	Digital (BACnet®)	Analog	Digital (Modbus®)	Analog or Digital (Modbus®)	
Sensors	No. of Channels (Sensors)	1 channel	1 channel	up to 3 channels (max 2 internal + 1 remote)	up to 3 channels (max 2 internal + 1 remote)	up to 3 channels (max 2 internal + 1 remote)	1 internal channel or 1 remote	1 or 2 internal or 1 remote or 1 internal + 1 remote	Analog model: 1 channel Digital model: 1 or 2 channels	
	Technology	n/a	n/a	n/a	n/a	n/a	Plug & Play Smart Sensor Board	Plug & Play Smart Sensor Boards	Plug & Play Smart Sensor Boards	
	Remote Sensor	No	ESH-A Combustibles	ESH-A Combustibles	ESH-A Combustibles	ESH-A Combustibles	ESH-A Combustibles	ESH-A Combustibles	ESH-B Refrigerants	
	Electrochemical	Ammonia, Carbon monoxide, Chlorine, Nitrogen dioxide, Oxygen, Ozone	Ammonia, Carbon monoxide, Chlorine dioxide, Chlorine, Ethylene, Ethylene oxide, Fluorine, Formaldehyde, Hydrogen, Hydrogen sulphide, Hydrogen chloride, Hydrogen cyanide, Hydrogen fluoride, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Phosphine, Silane, Sulfur dioxide	Carbon monoxide, Nitrogen dioxide	Ammonia, Carbon monoxide, Chlorine dioxide, Chlorine, Ethylene, Ethylene oxide, Fluorine, Formaldehyde, Hydrogen, Hydrogen sulphide, Hydrogen chloride, Hydrogen cyanide, Hydrogen fluoride, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Phosphine, Silane, Sulfur dioxide	Ammonia, Carbon monoxide, Chlorine dioxide, Chlorine, Ethylene, Ethylene oxide, Fluorine, Formaldehyde, Hydrogen, Hydrogen sulphide, Hydrogen chloride, Hydrogen cyanide, Hydrogen fluoride, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Phosphine, Silane, Sulfur dioxide	Ammonia, Carbon monoxide, Chlorine, Ethylene, Formaldehyde, Hydrogen, Hydrogen sulphide, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Sulfur dioxide	Ammonia, Carbon monoxide, Chlorine, Ethylene, Formaldehyde, Hydrogen, Hydrogen sulphide, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Sulfur dioxide	Carbon monoxide, Formaldehyde	
	Solid State	No	Refrigerants R22, R134A, R402A, R404A, R407C, R410A, R422D, R438A, R507A, R513A, R514A, TVOCs	No	No	No	No	Refrigerants R22, R134A, R402A, R404A, R407C, R410A, R422D, R438A, R448, R449, R507A, R513A, R514A, TVOCs	RRefrigerants R22, R134A, R402A, R404A, R407C, R410A, R422D, R438A, R448, R449, R507A, R513A, R514A, TVOCs	Refrigerants R404A, R410A, R507A, TVOCs
	Infrared	No	No	No	No	No	No	Carbon dioxide	Carbon dioxide	Carbon dioxide
	Catalytic	No	Internal or Remote: Methane, Propane, Hydrogen	Remote: Methane, Propane, Hydrogen	Remote: Methane, Propane, Hydrogen	Remote: Methane, Propane, Hydrogen	Remote: Methane, Propane, Hydrogen	Internal or Remote: Ethanol, Dimethyl ether, Methanol, Methane, Propane, Hydrogen	Internal or Remote: Ethanol, Dimethyl ether, Methanol, Methane, Propane, Hydrogen	Internal: Methane
	PID	No	Remote: TVOCs	Remote: TVOCs	Remote: TVOCs	Remote: TVOCs	Remote: TVOCs	Internal or Remote: TVOCs	Internal or Remote: TVOCs	Internal: TVOCs
Other	n/a	n/a	n/a	n/a	n/a	n/a	Particulates sensor, Optional: RH & Temp sensor (shows on display only)	Optional: RH & Temp sensor. Not available with Cl <sub>2</sub> , NO <sub>2</sub> , or O <sub>3</sub> (sticky gas) sensors or dual channel models except CO	Particulates sensor Optional: RH & Temp sensor	
Electrical	Power Requirement	2-wire / 3-wire: 16 - 30 VDC, 1W, Class 2 4-wire: 12 - 27 VAC, 50-60 Hz, 1VA, Class 2	3-wire: 16 - 30 VDC, 3W, Class 2 4-wire: 12 - 27 VAC, 50-60 Hz, 3VA, Class 2	16-30 VDC, 3W, Class 2	16-30 VDC, 3W, Class 2 12 - 27 VAC, 50-60 Hz, 3 VA, Class 2	16-30 VDC, 3W, Class 2 12 - 27 VAC, 50-60 Hz, 3 VA, Class 2	16-30 VDC, 3W, Class 2 12 - 27 VAC, 50-60 Hz, 3 VA, Class 2	16-30 VDC, 3W, Class 2 12 - 27 VAC, 50-60 Hz, 3 VA, Class 2	16-30 VDC, 3W, Class 2 12 - 27 VAC, 50-60 Hz, 3 VA, Class 2	
	Output	4 - 20 mA	4 - 20 mA or 0 - 10 volt	Modbus® RS-485 RTU	Modbus® RS-485 RTU	BACnet® MS/TP	Analog 4- 20 mA	Modbus® RS-485 or BACnet® MS/TP	Analog or Modbus® RS-485 or BACnet® MS/TP	
	Relay	No	One SPDT, rated 30 V, 2 amp max	No	One SPDT, rated 30 V, 2 amp max	One SPDT, rated 30 V, 2 amp max	One SPDT, rated 30 V, 2 amp max	Optional: One SPDT, rated 30 V, 2 amp max relay. Not available with sticky gas sensors or CO <sub>2</sub>	Optional: One SPDT, rated 30 V, 2 amp max relay. Not available with sticky gas sensors, CO <sub>2</sub> or dual channel models	Optional: One SPDT, rated 30 V, 2 amp max relay. Not available with dual channel models
Environmental	Operating Temperature	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)	-0°C to 50°C (32°F to 122°F) Option -LT for low temp operation	-0°C to 50°C (32°F to 122°F) Option -LT for low temp operation	0°C to 40°C (32°F to 104°F)	
	Humidity	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	15 - 90% RH non-condensing	
Certifications		CSA, UL, CE, FCC	CSA, UL, CE, FCC	CSA, UL, CE, FCC, BTL	CSA, UL, CE, FCC	CSA, UL, CE, FCC, BTL	CSA, UL, CE, FCC, BTL	CSA, UL, CE, FCC, BTL	CSA, UL, CE, FCC, BTL	

Note: All CETCI's instruments consist of RoHS compliant circuit boards. \* Low Temperature Display Option does not extend the sensor temperature range. BACnet® is a registered trademark of American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE). Modbus® is a registered trademark of Gould Inc. Corporation.