



## Versatile multi channel controller for analog or digital controllers.

PDC series systems are programmable digital controllers designed to handle a large number of remote transmitters and perform a wide range of control functions. The microcontroller based circuit provides the user with an almost unlimited range of configuration possibilities including simple or complex zoning, changing alarm set points, time delays and relay addressing.

The controller can accept inputs from up to 8 analog transmitters or can handle up to 128 digital transmitters on a RS-485 communication bus.

Each PDC is pre-programmed at the factory, and is completely field adjustable using a boardmounted pushbutton keypad. Functions that can be set include relay assignment, time delays on make or break, complex zoning, sensor types and ranges, alarm setpoints and much more.

The controller has a two-line backlit LCD display that actively scrolls through all programmed channels and shows the gas name, concentration and alarm status. The PDC features LED alarm indicators and audible alarm with silence button. 4 to 20 mA analog output modules or relay output modules are available.

Gases detected include CO, NO<sub>2</sub>, Chlorine, Combustible Gases, Ammonia, Ozone, CO<sub>2</sub>, Oxygen, Refrigerants, Hydrogen, H<sub>2</sub>S, SO<sub>2</sub> and more.

# PDC Digital Controllers

## CONTROLLER PACKAGES

8 Analog Inputs & 8 relays	A08
16 Digital Inputs & 8 relays	D16
32 Digital Inputs & 8 relays	D32
64 Digital Inputs & 8 relays	D64
96 Digital Inputs & 8 relays	D96
128 Digital Inputs & 8 relays	D128

## OPTIONS

Watertight Enclosure  
Remote Mount Horn  
Remote Mount Strobe Light

## PROGRAMMING

Each PDC is pre-programmed at the factory, and is completely field adjustable using a boardmounted pushbutton keypad. Functions that can be set include relay assignment, time delays on make or break, complex zoning, sensor types and ranges, alarm setpoints and much more.

## TRANSMITTERS

The PDC accepts inputs from any CET analog transmitter. The PDC connects to model DST digital transmitters on a RS-485 communication bus using shielded cable (2 signal wires and 2 power wires). CET manufactures a wide range of transmitters with sensor and enclosure options for many different applications.

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## CONTROLLER SPECIFICATIONS

ENCLOSURE	Rugged, Lockable, Powder Painted 18 gauge Steel
Size	12" x 12" x 4" 305 mm x 305 mm x 75 mm
Weight	9.2 pounds 4.2 kg
Optional watertight fibreglass enclosure available	

## POWER REQUIREMENT

90 to 240 VAC, 47 to 63 Hz

## INDICATION

Visual	Scrolling, backlit LCD digital display Common LED lights for Power, Fail, Low, Mid and High Gas Alarms
Audible	Integral audible alarm rated 90 dB at 10' Door mounted silence button

## RELAY OUTPUTS - BUILT IN

8 SPDT relays rated 5 A @ 240 VAC

## OPTIONAL OUTPUT MODULES

Analog module	8 scalable analog 4-20mA signals
Relay module	8 SPDT relays rated 5 A @ 240 VAC

## WIRING

Analog 3 wire shielded  
Digital Daisychain only, shielded  
2 wire 14 gauge stranded power  
2 wire 18 gauge twisted pair network

## OPERATING ENVIRONMENT

Temperature	0 to 40 degrees C 32 to 100 degrees F
Humidity	10 to 95% non-condensing

## CERTIFICATIONS

CSA / UL inspected for electrical safety



## HAZARDOUS GAS DETECTION

145 - 7391 Vantage Way, Delta, BC, Canada V4G 1M3  
Toll free: 877-940-8741 Ph: 604-940-8741 Fax: 604-940-8745 www.critical-environment.com



## INDOOR AIR QUALITY

yes Environment Technologies www.yestek.com

## INSTALLATION NOTES

**Installation is crucial for proper system function. Ensure that proper wiring procedures are followed, wire type and gauge are very important. Ensure that the installation instructions are followed to the letter. CET does not have control over and therefore assumes no responsibility for wiring errors or problems.**