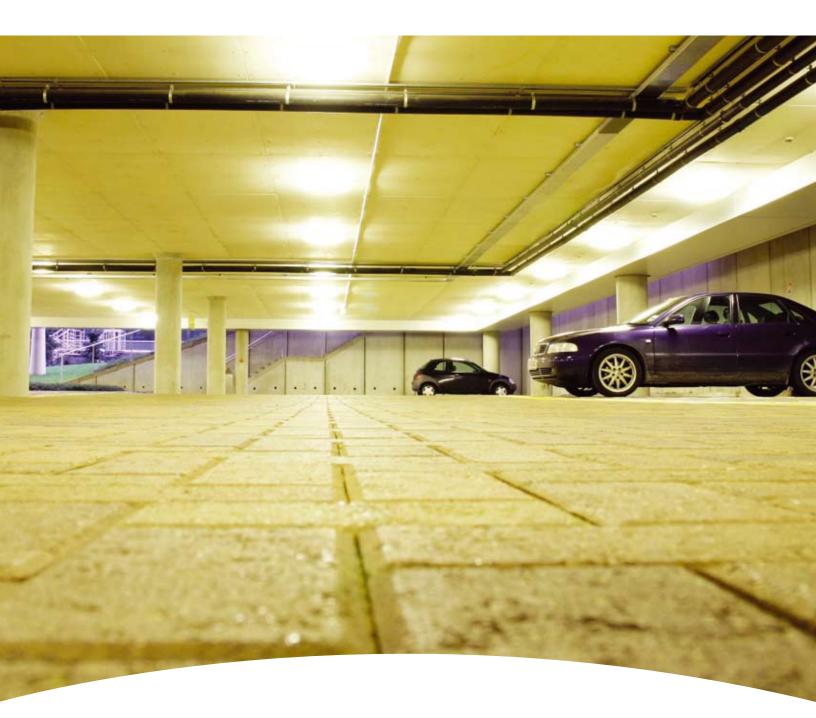Gas Detection Controller offering unique zoning capabilities which permit the averaging and comparison of multiple sensor readings

The 301C Controller continuously monitors and controls toxic gases, combustible gases, and oxygen hazards. Designed for installation and operational simplicity, the 301C reduces the cost of installation and ownership.

Using an addressable RS-485 Modbus communication protocol, the 301C uses daisy chain wiring requiring only 2 pairs of wires to connect up to 96 transmitters on the 3 input channels. This simplifies installation, in turn lowering costs. The 301C's zoning and averaging abilities significantly reduce operational and maintenance costs.

Zoning/Averaging Capabilities
Reduce Operational Costs

The 301C controller offers unique zoning capabilities which permit the averaging and comparison of multiple sensor readings. Zoning can reduce operational costs by ensuring that localized brief fluctuations registered at a single transmitter do not activate relays. For example, a car idling in a parking structure may locally increase a reading at a nearby transmitter. Rather than activating a fan as a result of the temporary localized fluctuation, zoning can be used to limit relay activation until the average reading for a zone exceeds a set-point. This can reduce run time of fans, yielding savings in both energy usage and wear and tear. The 301C has the capacity to manage input from three Modbus channels for up to 96 transmitters and up to 50 wireless transmitters which can be associated with up to 126 zones. Transmitters can belong to an unlimited number of zones, providing maximum operational and control flexibility.

User Friendly
- Zero maintenance
- Automatic quick self-test and warm-up
- Continuous alphanumeric display

Inexpensive and Reliable
- Low installation costs
- Allows for up to 126 zoning groups which can save energy and extend fan and relay life
- Manages up to 180 events with programmable latching alarms

Flexible Operation
- Modbus compatible; with BACnet/IP available
- Interchangeable transmitters able to detect different gases
- Expands to handle up to 96 transmitters or relay modules and up to 50 301W wireless sensors
- Programmable time delays
- Integrated time clock enables scheduling of system operations

Safety Measures
- Full array of visual indicators and integrated 65dBA alarm levels
- Fully programmable relays (can be set as fail-safe or not)

Beneficial Options
- Available in a heavy duty industrial housing
- Datalogging option

Find out more
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