

# BRASCH

## DIGITAL CONTROL PANEL (MULTI-POINT SYSTEM)



### Key Features

- Microprocessor Controlled
- Protected Sensors
- Electrically Isolated
- Corrosion Resistant Enclosure
- LCD Readout
- Static Discharge Protection
- Low Voltage Wiring To Sensors
- Fail-Safe If Power Loss
- Battery Backup-Memory And Clock
- Full Factory Calibration
- Available For Monitoring Carbon Monoxide (CO) and Nitrogen Dioxide (NO<sub>2</sub>) Gases

### Flexibility

- Power (120VAC)
- Internal Audible Alarm With Relay
- High And Low Alert Delay Selections
- Up To 20 Remote Sensors Per Panel
- High And Low Alert Relay Control
- Up To 6 Programmable Fan Zones
- Up To 1000 Feet Between Sensor And Control Panel
- Monitors Combinations Of Various Sensors

### Typical Installations

- Commercial Parking Garages
- Condominiums & Apartments
- Schools
- Warehouses & Factories
- Car & Bus Maintenance Garages
- Tunnels
- Firehouses
- Auto Service Centers



# GDCP-A Digital Gas Detector Control Panel

## Input Channels:

Max. Ch.: 20 ea.  
Input Signal: RS-485 com port  
Max. Distance Between  
Control Panel & Sensor: 1000 Feet

## Output Zones:

Max. Zones: 6 ea.  
Output Relays: 125 VAC, 50/60 Hz.  
5 Amp Resistive  
250 VA Inductive  
1/8 HP Motor  
2 Relays per Zone

Alarms: Alarm relay with internally mounted buzzer, automatically actuated and manually silenced.

Display: 4 line x 20 char. LCD with LED backlight.

Keyboard: 4 key - keypad with sealed, tactile feedback switches.

Timing: Real time clock with outputs for minutes, hours, day, day-of-week, month and year.

Circuit: Microprocessor controlled with battery backup to retain timing and settings during power interruptions for up to 10 years.

Input power: 120 VAC, 50/60 Hz., 63 VA

Housing: Heavy gauge painted steel cabinet has locking door with clear lexan window which allows clear view of displays but prevents tampering.

Size and weight: 14 lb.

Control panel: 10 1/4 in. H x 14 in. W x 5 in. D.

Transmitters: 5 in. H x 3 1/4 in. W x 2 5/8 in. D.

Recognitions: ETL listed to UL 61010B-1 and CSA C22.2 No. 1010.1

## Mounting

This unit can only be mounted indoors in a dry location at a height suitable for viewing the display. The location of the control panel should provide easy access to all functions of operation. The control panel should be mounted in an area where periodic monitoring can be accomplished.

## Description

The BRASCH Multipoint Digital Gas Detector System is ideal for monitoring large areas that require multiple sensors. The standard system can simultaneously monitor up to 20 sensors and control up to six ventilation zones. Any combination of GSE-CM-TRA or GSE-ND-TRA Brasch Digital Sensor Transmitters can be used and each sensor can be assigned to any of the six ventilation zones. For example, four carbon monoxide and four nitrogen dioxide sensors can be connected as inputs. Each sensor can control the activity of a specific zone, all zones or any combination of zones. The user maintains complete flexibility from one central location.

The GDCP-A requires the use of the GSE-CM-TRA and/or GSE-ND-TRA sensor/transmitter. Power to the sensor/transmitter is supplied by the control panel, while communication occurs over an RS-485 port. The sensor/transmitter can be sequentially "daisy chain" connected up to 1000 feet from the control panel.

Operating parameters are entered at the control panel using a sealed, tactile feedback keypad and liquid crystal display. Selections for the type of sensor, type of ventilation equipment, alert actuation concentrations and delay times can be entered for each sensor and zone.

Override ventilation control of each zone is provided with three weekday (Monday through Friday) and three weekend (Saturday and Sunday) automatic ventilation time periods. For example, the user can choose to operate a zone, or zones, for two hours every weekday morning using this feature. Alternately, the user can choose to have selected zones actuate for 10 minutes at the beginning of each hour.

Other features include software activation or lock out of specific sensors or zones, and changes in the date and time settings. The status of the system, including program settings, can be reviewed at any time.

If an event occurs, such as a sensor failure or an alert level is exceeded, that event will be indicated on the front panel. The indication will continue until the event is no longer valid.

During a power interruption or a system failure, the low alert and alarm relays will close (failsafe condition), sound an alarm and activate the ventilation fans. The user can choose to have the system return from a power loss with or without specific ventilation zones active.

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