

# BRASCH

## UNIVERSAL CONTROL PANEL (MULTI-POINT SYSTEM)



MODEL GDCP  
FOR USE WITH  
MODELS BGS-XXX & GSE-XXX  
SENSOR / TRANSMITTERS AND STAND-ALONE GAS DETECTORS

### 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 With Any Brasch Transmitter Or Stand-Along Model

### 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 10 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 Universal Gas Detector Control Panel

## Input Channels:

Standard: 8 ea.  
Optional: 12 ea. (4 ch. steps)  
Max. Ch.: 20 ea.  
Input Signal: 4 to 20 mA  
Max. External Resistance:  
250 Ohms per channel

## Output Zones:

Standard: 4 ea.  
Optional: 6 ea. (2 zone steps)  
Max. Zones: 10 ea.  
Output Relays: 125 VAC, 50/60 Hz.  
5 Amp Resistive  
250 VA Inductive  
1/8 HP Motor

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

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

Keyboard: 4 x 4 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.

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

Housing: Heavy gauge painted steel cabinet with locking door.

Size and weight: 14 lb.

Control panel: 16 1/4 in. H x 11 3/4 in. W x 5 1/4 in. D.

Recognitions: ETL Listed

## 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 Universal Gas Detector System is ideal for large areas requiring multiple sensing locations. The standard system can simultaneously monitor up to eight sensors and control up to four ventilation zones. Any combination of Brasch sensors can be used and each sensor can be assigned to any of the four 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.

Users requiring even larger capacity can order optional channel boards. Each board easily installs onto the main control board, and increases the system capacity by four sensor inputs and two ventilation zones. A maximum of 20 sensors and 10 zones can be accommodated. These optional boards are easily added as the need for extra capacity increases.

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.

Manual 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.

Other features include software activation or lock out of specific sensors or zones, and changes in the date and time settings. All program parameters are protected by a user selected, six digit password. The status of the system, including program settings, can be reviewed at any time without the use of the password.

If an event occurs, such as a sensor failure or an alert level is exceeded, that event will be indicated on the display. The message will continue to be displayed 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.

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