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 **KELTRON**

## **DGP Series Data Gathering Panels**



The Keltron DGP Series data gathering panel is a highly reliable multiplexing solution that enables the transmission of data from up to 32 fully-supervised zones to the central alarm monitoring unit, using a single pair of wires - either twisted pair or normal voice-grade phone line. Its flexibility enables it to fulfill a wide variety of event monitoring applications to support police, fire safety and security environments. Easy installation and maintenance are a major advantage to integrators and installers.

### **How the DGP Series works**

The solution consists of a number of individual data gathering panels (DGPs) that each monitor either 16 class A circuits or 32 resistor-terminated, class B input circuits. These circuits are wired on a separate, private communication link and report signals to the central signaling unit (CSU). The use of separate wires between the DGPs and the central monitoring site significantly increases the reliability of the communication. Efficient use of the existing telephone wiring infrastructure supports a single or dual communication line(s) for redundancy and full class A operation.

The main communication link between the DGP and the operator display, the CSU interfaces with Keltron's alarm monitoring systems to provide an easy-to-read CRT display and/or printout.

One CSU is required for every seven DGPs, and each DGP uses one additional zone in the Keltron alarm-monitoring unit to provide supervised communication.

### **DGP Series features**

- Full zone supervision
- Each zone can report two distinct types of alarms and secure with line trouble for both opens and shorts
- Built-in battery standby power supply
- Controls up to 11 relays
- Scans each input more than 100 times per second
- Modular logic and function components enable quick disconnect and plug-in
- Indicator lamps for troubleshooting
- CSU logic on plug-in circuit boards with gold-plated contacts for long term trouble-free service
- Constant supervision with annunciation of all faults

### **DGP Series Options**

- UL Class A inputs
- Tight tolerance resistor inputs
- Auto line switching provides redundancy
- Relay output option

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet signaling systems, active network radio systems, distributed multiplex systems, digital communicator/receiver systems, and direct wire systems. This document is not intended for installation or maintenance purposes. All specifications are subject to changes without notice. For more information visit [www.keltroncorp.com](http://www.keltroncorp.com) or contact us at 781-894-8710.

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**DGP Series**

## Technical operation

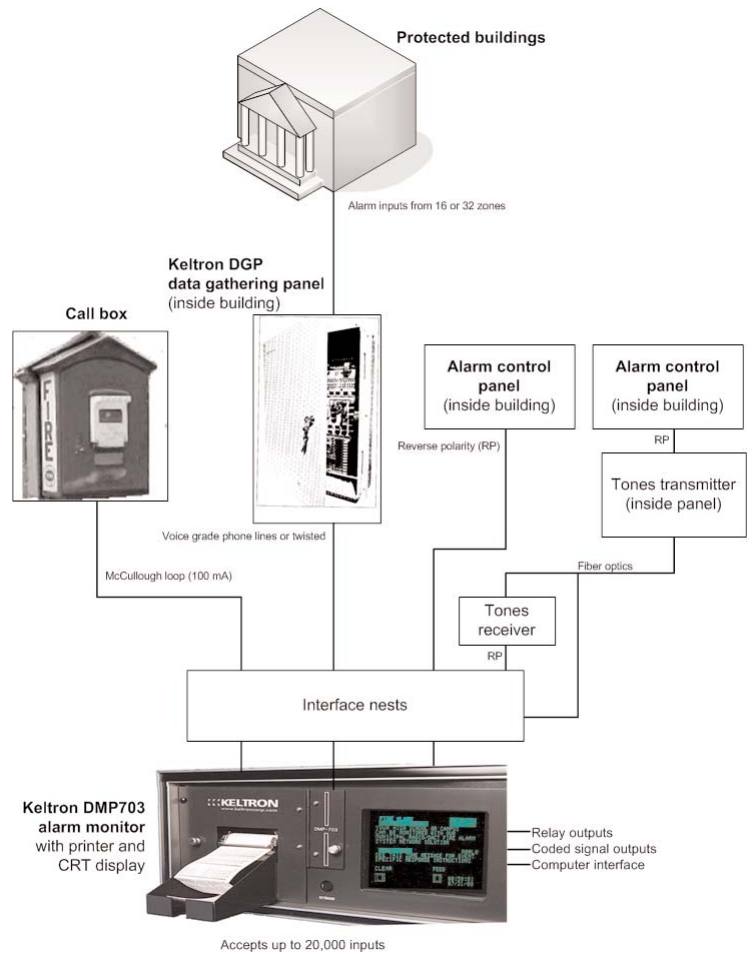
Each DGP scans its input circuits more than 100 times per second. Any apparent change of input status is tested to ensure that it is not a noise spike. For each verified change, a message is transmitted from the DGP to the CSU. Each message must pass all of the error-checking tests for two consecutive transmissions before sending the 'message OK' acknowledgement. The CSU then forwards the data to the system's annunciator panel for appropriate action by monitoring personnel.

The constant 'ping-pong' communication between the CSU and each DGP ensures reliability by supervising all communication lines and immediately signaling any breakdown.

## Specifications

### Data gathering panel (DGP)

<b>Capacity</b>	16 Class A or 32 fully supervised zones
<b>Dimensions</b>	16"W x 20"H x 4 5/8"D, NEMA style aluminum enclosure
<b>Mounting</b>	Wall mount or recessed
<b>Power</b>	110 or 220 VAC, 50-400Hz, built-in battery backup and charging circuit (less the 12V, 6.0 Amp/hr battery required for 60 hrs standby operation)



## Relay output option

Each DGP can control up to 11 relays. The relay outputs are single, form A contacts (SPST, normally open) that are rated for loads of 100 VDC maximum, 0.5 ADC maximum, or 10 watts maximum. Isolation filters are provided between the relay coils and the buffer outputs. The relay output contacts are protected against inductive spikes by means of voltage snubbers and RC filter networks.

Relays can be controlled either via a manual control panel, the DMP703 universal alarm monitor or using a PC-based information retrieval system available from Keltron.

## Central signaling unit (CSU)

<b>Capacity</b>	7 DGPs for 224 zones maximum; up to 5 CSUs per annunciator (e.g. DMP703)
<b>Dimensions</b>	19"W x 12"D x 6"H, rack mountable

