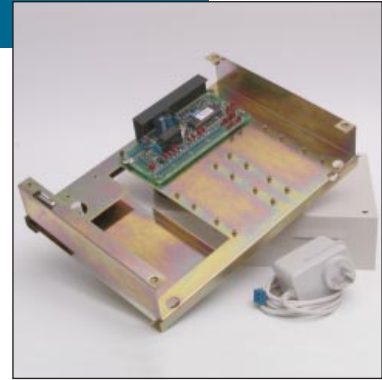




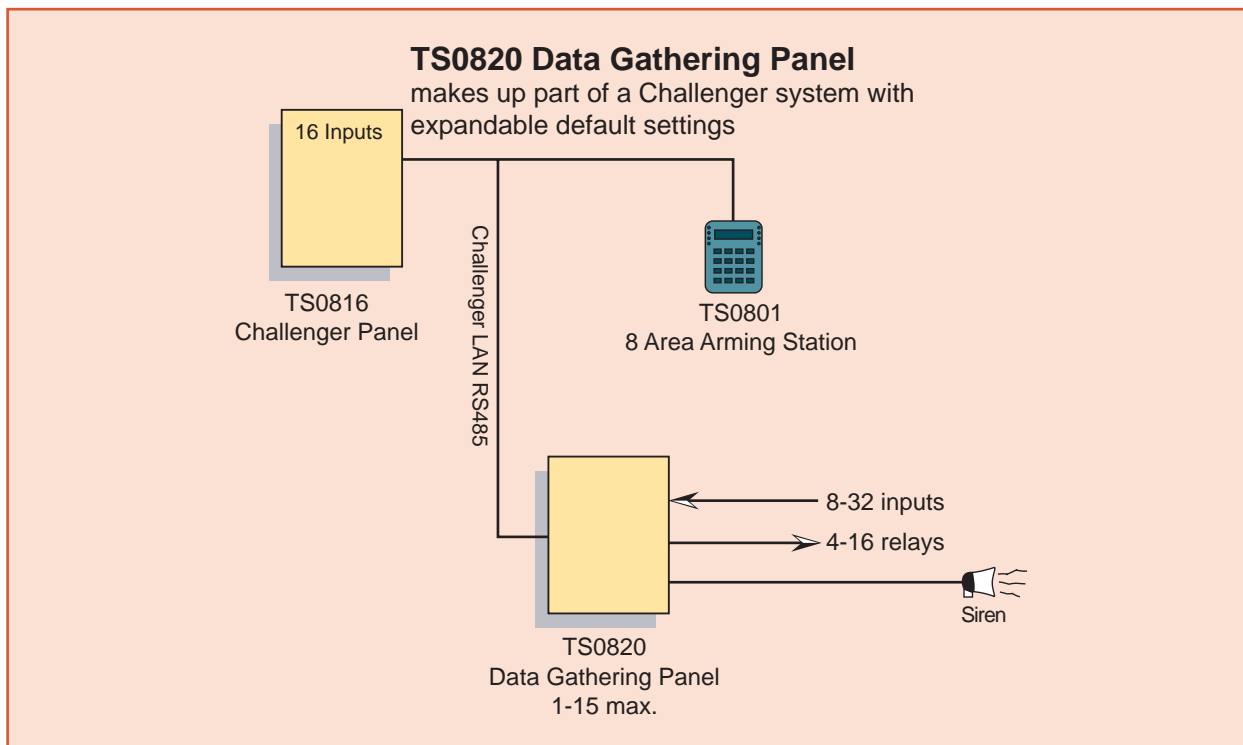
## Data Gathering Panel TS0820

A Data Gathering Panel (DGP) allows inputs and relays to be connected at a location remote from the Challenger Panel. Data Gathering Panels are used to expand the number of inputs and outputs in a system and to send data to the Challenger Panel for processing. Standard with a Data Gathering Panel is 8 inputs, 8 open collectors and a siren driver, however this is expandable to a total of 32 inputs and 16 relays/outputs. Should a failure in communications occur, the Data Gathering Panel remembers the last alarm in a system, helping to identify possible reasons for faults.



### CONNECTIVITY

Up to 15 Data Gathering Panels can be connected directly to the Challenger Panel at a maximum distance of 1.5km. For every Data Gathering Panel fully expanded to 32 inputs, the total number of Data Gathering Panels in a system reduces by one. If a system has all its Data Gathering Panels fully expanded to 32 inputs, the physical number of Data Gathering Panels in a system becomes 8. The Data Gathering Panel itself can be mounted in a number of metal enclosures with standoff kits for input expansion modules, relay boards or power supplies to be fitted in combination inside the Data Gathering Panel enclosure. See Enclosures section for more details.



### DATA GATHERING PANEL FEATURES

The modular design of the Challenger system allows for simple input and relay expansion with the Data Gathering Panel. Expanding the Data Gathering Panel to full capacity requires the installation of input and relay cards fixed into the Data Gathering Panel enclosure with small screws. Inputs and relays are programmed in the same way as those on the Challenger board.

### OPTIONS

TS0021	8 Input Expansion Modules
TS0840	4 Way Relay Board
TS0841	8 Way Relay Board
TS0842	16 Way Open Collector Controller

## TS0021 8 Input Expansion Modules

The 8 Input Expansion Module is used with the Data Gathering Panel to increase the number of inputs available in a system by 8. An inexpensive device for connection of security devices to a Challenger system, without the expense of purchasing additional Data Gathering Panels. See Data Gathering Panels and Access Controllers section for more details.

## TS0840 4 Way Relay Board

The TS0840 provides an additional 4 relays to a Data Gathering Panel. Connecting two of these units provides a possible 8 on a Data Gathering Panel. See Relays section for more details.

## TS0841 8 Way Relay Board

The TS0841 provides an additional 8 relays to a Data Gathering Panel and can be expanded to a maximum output count of 16. See Relays section for more details.

## TS0842 16 Way Open Collector Controller

The TS0842 provides an additional 16 open collector outputs to a Data Gathering Panel. See Relays section for more details.

## SPECIFICATIONS

### Power Supply

Input Voltage:	16 - 18 Volts AC (plug pack supplied)
Testing:	Dynamic battery testing
Operating Current:	120mA maximum plus 10mA for each expander
Aux. Power O/P:	750mA maximum (for detectors etc.)

### Communications

Maximum distance from Challenger Panel:	1.5 km
Specified Cable for Challenger LAN:	Belden 8723 or equiv.
LAN Monitoring:	Continuously monitored for Off-line status of all devices on the LAN
Total Number of DGPs:	15 per Challenger
Addressing:	Individually addressed by dip switches

### Operating Capacities and Connections

Alarm Points:	8 4 state alarm points (expandable to 32 with TS0021 modules)
Relays:	4 or 8 relays – TS0840 Relay Board 8 or 16 relays – TS0841 Relay Board or TS0842 Open Collector Controller
Operating Temperature:	0 - +70°C

### Board Size

Data Gathering Panel:	'A' size board
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### Ordering Information

When placing an order please specify the following part number:

TS0820	AC Data Gathering Panel Board with Plug Pack and TS0304 Enclosure
TS0820B	AC Data Gathering Panel, Board Only.