Flex 4 & Flex 8 Conventional Fire Alarm Control Panels



Description

The **Gamewell Flex 4** and **Flex 8** Fire Alarm Control Panels are designed for small to medium commercial, residential, institutional and industrial occupancies. Simple and easy configuration of the microprocessor-based controls is accomplished via DIP switches.

Superior product flexibility allows compliance with the specific job requirements at each installation. Two standard configurations are available. The Flex 4 includes 4 Class B (Style B) Initiating Device Circuits (IDCs), which are easily programmed and wired to perform as 2 Class A (Style D) circuits. For signaling an alarm condition, the Flex 4 provides 2 Notification Appliance Circuits (NACs) that may be wired for Class A/B (Style Z/Y) performance and are rated for loads up to 1.7 Amperes each.

With twice the circuit capacity, the Flex 8 provides 8 Class B IDCs, which are easily configurable as 4 Class A circuits and 4 Class A/B NACs. Each NAC is also rated for a maximum of 1.7 Amps, with total notification appliance power for the Flex 8 at 5 Amps maximum. A Flex 4 may be expanded in the field to provide the circuit capacity of a Flex 8 by installing a Circuit Expander Module (CEM.) The CEM provides an additional 4 Class B (2 Class A) IDCs and 2 Class A or B NACs.

All initiating circuits of the Flex 4 and Flex 8 are factory set to operate for Class B (Style B) wiring performance. Through field programming, all circuits can easily be converted to Class A (Style D) circuits.

An integral 6 Amp power supply is included in both products to provide system power, 4-wire resettable smoke power (24 VDC @ 100 mA) and up to 5 Amps of notification appliance power.

Programming

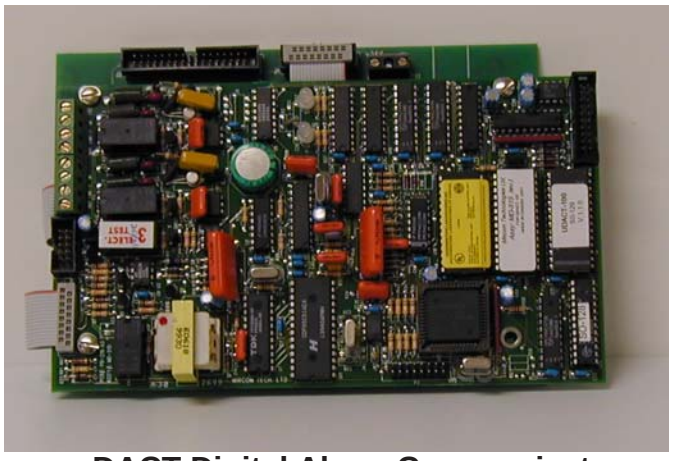
The Flex 4 and Flex 8 use simple DIP switches for programming IDCs and NACs, as well as enabling and disabling of system functions such as signal silence, fire drill and auxiliary disconnect. Notification circuits may be configured for audible or visual devices and silenceable or non-silenceable operation. The Flex 4 and Flex 8 allow for alarm verification on all Initiating Device Circuits (IDCs). Predefined IDCs may be optionally configured for Waterflow (zone 3 [Flex 4] or zones 3 & 7 [Flex 8]) or Latching/Non-Latching Supervisory (zone 4 [Flex 4] or zones 4 & 8 [Flex 8]).

Approvals

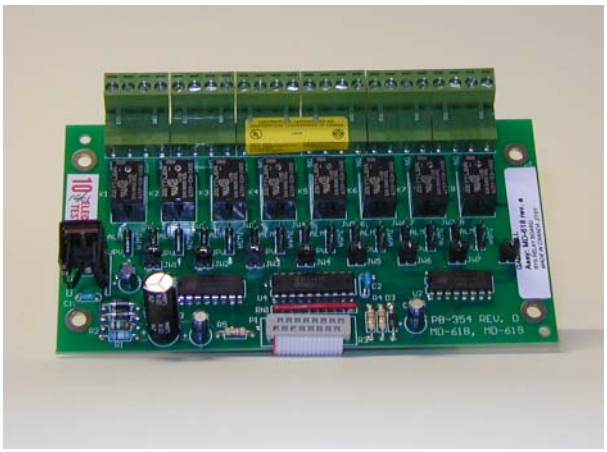
UL Listed
CSFM, MEA Approved

Features

- Initiating Device Circuits (IDCs) may be individually configured for:
  - > General Alarm
  - > Waterflow
  - > Supervisory
  - > Alarm Verification
- Supervisory operation may be Latching or Non-Latching
- Notification Appliance Circuits (NACs) may be programmed as:
  - > Silenceable
  - > Non-Silenceable
  - > Auto-Silenceable
  - > Coded (March Time, Temporal Code, California Code)
- 5.0 Amps of total NAC power
- Common Alarm, Supervisory and Trouble contacts
- Resettable four-wire smoke detector power @ 100 mA
- Integral Walk Test operation
- EIA-485 interface for up to 3 model RA8 Remote Annunciators
- Polarity Reversal and City Tie connection (optional)
- Digital Alarm Communicator Transmitter - DACT (optional)
- Relay-by-zone capability with RY4 (Flex 4) or RY8 (Flex 8) modules



DACT Digital Alarm Communicator Transmitter/Dialer



Relay Module RY8



Remote Trouble Indicator



RA8
Remote Annunciator



Configuration and Programming Tool
CFG

The Flex 4 and Flex 8 can meet the following UL installation system designations (with indicated options selected):

- Local, Auxiliary (using PRM),
- Remote Station Protected Premises (using DACT or PRM),
- Central Station Protected Premises (using DACT).
- Type of Service / Signaling A, M, WF, SS (SS is only Local or with DACT)/Non-coded

Specifications

Flex 4 & Flex 8 Fire Alarm Control Panels

Primary Input Power:	102—132 VAC, 60 Hz, 4 Amp
Secondary Power:	Two 12-volt batteries (in series)
Battery Charging Capacity:	Up to 24 Amp hours max.
Initiating Device Circuits:	26 VDC, .003 A standby, 1.5Vp-p ripple, .050 A max. (alarm), power-limited
IDC Compatibility Identifier:	"GWC01"
Total Output Power:	6 Amp maximum
NAC Output Ratings:	24 VDC unfiltered, 1.7 Amp max. / circuit (5 Amp max.), power-limited
Auxiliary Power Output:	24 VDC unfiltered, .3 A max., power-limited
4-Wire Smoke Power:	28 VDC unfiltered, .100 A max., 1.5Vp-p ripple, resettable, power-limited
Current Consumption:	.110 A standby, .220A alarm
Main Circuit Board Fuse:	10 Amp
Auxiliary Relays:	
Alarm, Trouble, Supervisory:	1 Amp resistive, 28VDC, Form-C
EIA-485 Connection:	Connects up to 3 **RA8** Remote Annunciators
Trouble Indication Output:	Controls single **RTI** Remote Trouble Indicator
End-of-Line resistor (30177):	3.9 K-Ohm, 1/2 Watt, 5% with spade lugs—UL Listed

Flex 4 & Flex 8 Optional Modules

RA8—Remote Annunciator, 8-Zone:

Current Consumption:	.035 A standby, .090 A alarm

RTI—Remote Trouble Buzzer:

Current Consumption:	.035 A standby, .035 A alarm

DACT—Digital Alarm Communicator Transmitter:

Current Consumption:	.045 A standby, .120 A alarm

RY4—Relay Module, 4 Form-C:

Current Consumption:	.005 A standby, .160 A alarm 1 Amp resistive, 28 VDC

RY8—Relay Module, 8-Form-C:

Current Consumption:	.005 A standby, .160 A alarm 1 Amp resistive, 28 VDC

PRM—Polarity Reversal / City Tie Module:

Current Consumption:	.035 A standby, .3 A alarm Supervised City Tie: 24 VDC unfiltered, .210 A max., 14 Ohms trip coil, **NOT power-limited**
Polarity Reversal:	24 VDC open, 12 VDC @ .003 A, .008 A max. (shorted), power-limited

CEM—Circuit Expander Module *(Flex 4 only):*

Current Consumption:	.045 A standby, .120 A alarm
Initiating Device Circuits:	22 VDC, .003 A standby, 1.5Vp-p ripple, .050 A max. (alarm), power- limited
IDC Compatibility Identifier:	"GWC01"
NAC Output Ratings:	24 VDC unfiltered, 1.7 Amp max. / circuit , power-limited

Cabinet Dimensions:	14" H x 14" W x 5" D
Battery Space:	Two 12 AH batteries max.
Relative Humidity:	93% non-condensing
Temperature Rating:	0°C - 49°C (32°F– 120°F)

Ordering Information

Model	Description
Flex 4	Four-zone, expandable, microprocessor-based Fire Alarm Control Panel with 4 Class B (Style B) or 2 Class A (Style D) Initiating Device Circuits (IDCs), 2 Class A/B (Style Z/Y) Notification Appliance Circuits (NACs) and a 6 Amp power supply. Expandable up to 8 Class B (Style B) IDCs or 4 Class A (Style D) and 4 Class A/B (Style Z/Y) NACs. Allows for installation of one DACT Digital Alarm Communicator Transmitter or one PRM Polarity Reversal / City Tie Module and one RY4 or RY8 Auxiliary Relay Module. Red, surface- or flush-mount enclosure with CAT-60 key locked door.
Flex 8	Eight-zone, microprocessor-based Fire Alarm Control Panel with 8 Class B (Style B) or 4 Class A (Style D) Initiating Device Circuits, 4 Class A/B (Style Z/Y) Notification Appliance Circuits and a 6 Amp Power Supply. Allows for Installation of one DACT Digital Alarm Communicator Transmitter or one PRM Polarity Reversal / City Tie Module and one RY4 or RY8 Auxiliary Relay Module. Red, surface- or flush-mount enclosure with CAT-60 key locked door.
Accessories	
CEM	Circuit Expander Module to field modify a Flex 4 to a Flex 8
DACT	Digital Alarm Communicator Transmitter Module. Transmits in ADEMCO Contact ID and SIA-DCS protocols. CFG configuration and diagnostics tool is required for programming.
PRM	Polarity Reversal / City Tie Module. *(Note: Only one of a DACT or PRM module can be used with the Flex 4 or Flex 8).*
RY4	Auxiliary Relay Module with 4 configurable, Form-C relays. Relays programmable for: Relay-by-Zone, Common Alarm, Common Supervisory, etc.
RY8	Auxiliary Relay Module with 8 configurable, Form-C relays. Relays programmable for: Relay-by-Zone, Common Alarm, Common Supervisory, etc.
RTI	Remote Trouble Indicator with trouble LED and piezo buzzer.
RA8	Remote Annunciator with common control features, indicators and 8 bi-colored LEDs.
30177	UL Listed, End-of-Line Resistor assembly with wire leads and spade lugs.
CFG	Hand-held Configuration and Diagnostics programming tool for DACT.
71954-M	Set of Manuals for the Flex 4 and Flex 8 product line
72052	Flex 4 and Flex 8 Main Board/Display replacement.
Batteries	
B12V4	Battery, 12 VDC, 4 Ampere Hour (2 required per panel).
B12V7	Battery, 12 VDC, 7 Ampere Hour (2 required per panel).
B12V12	Battery, 12 VDC, 12 Ampere Hour (2 required per panel).

Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions shipped with the product shall always be used for actual installation. For more information, contact Gamewell.

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