

ACM-8R Annunciator Control Module

The ACM-8R provides the FC-2000, IFC-1010, IFC-2020, and IFC-200 Fire Alarm Control Panels (FACP) with a selectable relay control module. The relays on this module can be selected for mapping anywhere in the FC-2000 memory map (in groups of eight). The ACM-8R provides eight Form-C relays with 5 amp-contacts.

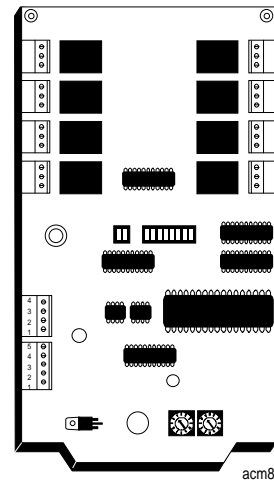


Figure 1: ACM-8R Annunciator Control Module

Features and Benefits	
<input type="checkbox"/> Programmable Relays	May be controlled by any 8-point module in the FC-2000, or by any point or group of points in the IFC-1010/2020
<input type="checkbox"/> Increases System Capacity	Extends FC-2000 capacity by adding a relay per initiating zone, and extends IFC-1010/2020 capacity by adding 256 relay points (using 32 ACM-8Rs with eight relays per module)
<input type="checkbox"/> Removable Terminal Blocks	Simplify installation and service
<input type="checkbox"/> DIP Switch Selectable Relay Memory Mapping	Makes relay selection easy

Mounting

The ACM-8R mounts to a CHS-4 chassis or a CHS-4L low-profile chassis (assume one of four positions on the chassis), or for remote

application, to an ABS-8R Annunciator Surface-Mount Backbox with a blank faceplate.

Wire Runs

Communication between the FACP and the ACM-8R occurs over a two-wire RS-485 serial interface. This communication, to include the wiring, is supervised by the FACP. Power for the annunciators is provided via a separate

power loop from the control panel, which is inherently supervised. Loss of power also results in a communication failure at the control panel.

Relay Terminal Assignments

The ACM-8R's relays can follow the status of initiating and indicating circuits, control relay, and several system control functions.

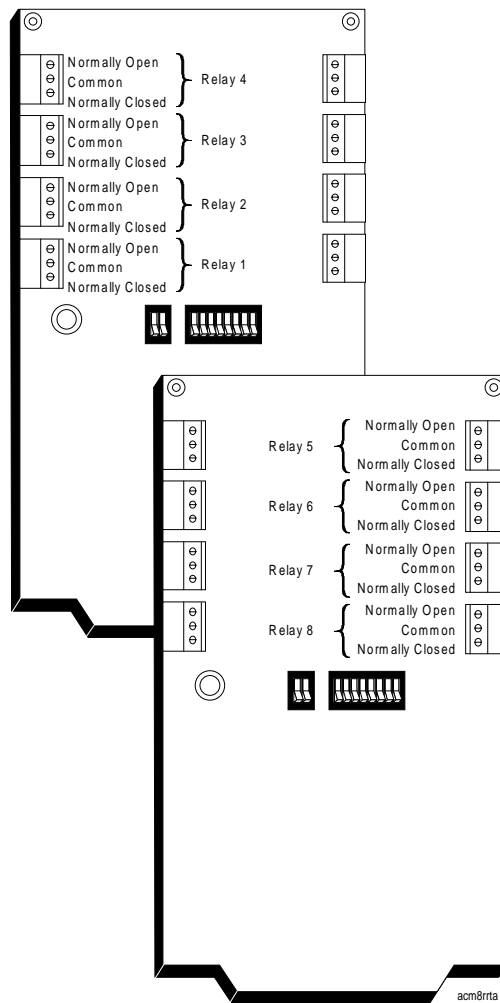


Figure 2: ACM-8R Relay Terminal Assignments

Table 1: ACM-8R Relay Mapping

Fire Alarm Control Panel	Circuit, Relay, Zone, or Device
FC-2000	IZM-8
	ICM-4/ICE-4 circuits
	CRM-4/CRE-4 relays
	TCM-2 circuits
	TCM-4 circuits
	VCM-4 circuits
	DCM-4 circuits
	AIM-200 zones
	Indicating Appliance Circuits 1 and 2
	Remote Signaling Municipal Tie Circuit
	Alarm Relay
IFC-1010/2020	1551J, 2551J, 2551TH, and 5551J Intelligent Detectors
	M500MJ, M501MJ, M502MJ Monitor Modules
	M510CJ Control Module
	BGX-101L Addressable Manual Pull Station
	Software Zones 1-240
XP Transponder System	Power and Audio Supply Supervision
	XPP-1 Form-C Alarm and Trouble Relays
	XPC Control Module
	XPM Monitor Module
	XPR Relay Module

Table 2: Ordering Information

Part Number	Description
ACM-8R	Annunciator Control Module with Relays
ABS-8R	Backbox for the ACM-8R

Specifications

Product	ACM-8R
Total Wire Resistance	Maximum 100 ohms on the RS-485 annunciator trunk circuit Maximum 10 ohms on the annunciator power circuit
Contact ratings	5 amps @ 125 VAC (resistive) or 30 VDC (resistive) and 2 amps @ 125 VAC (inductive).
Relay Contacts	Form-C gold-plated, silver alloy for medium duty switching, <i>and are not intended for Motor Control or Pilot Duty.</i>
Standby Current	0.030 amps per ACM-8R
Alarm Current	Number of ACM-8R modules x 0.030 amps + maximum number of relays that can be activated simultaneously: [] x 0.016 amps (depends on system configuration and programming)
Maximum Current With All Output Relays Activated	158 mA
Agency Listings	UL

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.



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