Website: www.stonel.com



process networking solutions

Junction Module (JM™) Enclosure with:



AS-Interface Input/Relay Output Module w/Extended Addressing (JMR97____; JMI97____)

These I/O Modules are designed to function as AS-Interface nodes with termination points for connecting switches/sensors, as well as relay outputs to operate devices such as motors and other high power devices. Relay Outputs can be either Interlocked to operate AC motors or Independent to operate separate AC loads.

Inputs and Outputs

- Features
- Four (4) Discrete InputsOne (1) Discrete Output
- Fuse protected relay outputs

- LED input displays for Inputs 3 & 4

- Two (2) Discrete (Relay) Outputs

(See Page 3 detailed wiring instructions)



Approval Agency Controlled Document. No Changes Authorized Without Prior Agency Approval

JM Model Options

Example: JMR9711E3

		Function	<u>Solenoid</u>	Enclosure	Conduit Entries
JM	R97	I/O Relay Module, 4 DI/1 DO/2 Relay DO	11 No Solenoid	C Clear Cover	3 (3) 1/2" NPT
		Independent Outputs, AS-Interface	(Relay models not available with solenoid)	E Epoxy Coated	N (4) 1/2" NPT
	197	I/O Relay Module, 2 DI/1 DO/2 Relay DO		Aluminum	6 (3) M20
		Interlocked Outputs, AS-Interface			M (4) M20
					9 (3) 3/4" NPT
					T (4) 3/4" NPT

General Specifications

Operating Life	Unlimited	Temperature Range	-40° to +80° C (-23° to 180° F)	
Materials of Construct	ion	Enclosure Protection	NEMA 4, 4X & 6; IP67	
Housing and Cover	Marine grade anodized aluminum	Hazardous Area Ratings		
-	epoxy coating	Explosion Proof (Aluminum Cover)		
Clear Cover	Lexan® Polycarbonate	Class I, Div. 1 and 2, Groups B,C,D		
Elastomer Seals	Buna-N	Class II, Div. 1 and 2, Groups E,F,G		
Fasteners	Stainless Steel	Non-incendive (Clear Cove	er)	
Warranty		Class I, Div. 2, Groups A,B,0	C,D	
Complete Assemblies	Two Years	Class II, Div. 2, Groups E,F,G		
		(Not all units carry approvals, consult factory)		

Lexan is a registered trademark of General Electric Corporation.

Mounting Instructions

Mounting The JM Enclosure

- 1. Locate the position where the JM enclosure will be mounted. Ensure that there is sufficient room to operate the disconnect switch levers and to remove the cover.
- 2. Attach the JM enclosure to a wall or other stationary flat surface using the mounting holes provided.
- 3. Secure the cover until hand tight

Attaching Conduit and Fittings

- 1. Conduit entries are provided for the convenient attachment of threaded conduit and threaded conduit fittings. Attach threaded fittings and conduits securely.
- 2. Follow all applicable NEC codes and other regulations.

Installing & Removing Cover

1. To insure NEMA 4, 4X. 6 and hazardous location ratings are maintained the cover **must be** completely closed and the O-Ring sealed to keep out water.

Input/Relay Output Module Specifications

AS-Interface 4 DI/1 DO/2 Relay DO Input/Output Relay Modules (Extended Addressing)

•	Current Usage	40mA (no I/O ena	abled)
Id contact	AS-Interface Profile	ID Code=A; IO Code=7; ID1=F; ID2=E	
reed, or 2 wire	Default Address	0A	
tate sensors	Bit Assignment	Input Data	Output Data
max power		Input 1= DI0	Output 1 = DO0
		Input 2= DI1	Output 2 = DO1
		Input 3= DI2	Output 3 = DO2
C fused @		Input 4= DI3	Output 4 = Not Used
Independent)	Temp Range	-25° to +70° C (-1	3° to 158° F)
C (Operating Life	Unlimited	
١	Warranty	Two Years	
	Id contact reed, or 2 wire tate sensors max power C fused @ Independent) C	C fused @ Id contact AS-Interface Profile Default Address Bit Assignment C fused @ Default Address Default Address Marranty	Id contact AS-Interface Profile ID Code=A; IO Comparison of the second of the sec

Input/Relay Output Module Wiring Diagram and Installation Notes



INSTALLATION NOTES:

- \geq 1. AS-Interface bus communications connection points.
- 2. Bus powered Discrete Input connection points for low power (3mA @ 28 VDC) gold contact mechanical switches, low power reed, or 2 wire and 3 wire PNP solid state proximity sensors (max allowable current leakage of sensors 0.3mA). Red LED is local indication of discrete Input 4 on/off status and the Green LED for discrete Input 3 on/off status.
- 3. Connection point for the "return" of 3 wire PNP sensors. (See Note 2)
- 4. 28 VDC Bus powered Discrete Output. (2.4 watts total power available)
- 5. Connection points for devices to be controlled by the Relay Outputs. OUT1 and OUT2 are markings found on modules with independent outputs (461138). BW And FW markings are used on modules with interlocked outputs (461137). Modules with interlocked outputs are typically used with AC motors. BW and FW represent forward and reverse operation of the motor.
- 6 6. Connection points for external 120/250VAC or 30VDC power for devices connected to the Relay Outputs.
 V+, V+, N, N, GND, GND are redundant termination points. The external power source feeds both Relay Outputs
 - 7. 2 amp replaceable fuse (Part# 434162) for Relay Output protection. (See Note 6)

StoneL Corporation Phone: (218) 739-5774 · Toll-free: (800) 843-7866 · Website: www.stonel.com