

process networking solutions

Junction Module (JM™) Enclosure with:

IS Input/Relay Output Module (JMR95___; JMI95____)

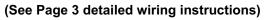
These I/O Modules are designed to function as Modbus (RS485) nodes with termination points for connecting switches/sensors (discrete and analog), as well as relay outputs to operate devices such as motors and other high power devices. Relay Outputs can be either Interlocked to operate AC motors or Independent to operate separate AC loads.

Inputs and Outputs

- Two (2) Discrete Inputs

Features

- LED input displays for Inputs 1 & 2
- Two (2) Discrete Relay Outputs
- One (1) Analog Input (4-20mA)
- Fuse protected relay outputs
- Pre-determined output fail state



No Changes Authorized Without Prior Agency Approval

JM Enclosure Dimensions (in mm) Standard Enclosure Switched Enclosure Enclosure w/Cyclone Valve 127 92 OFF ٦) \cap \bigcirc \bigcirc FieldLink 92 123 161 **FieldLink** 137 **FieldLink** \bigcirc \bigcirc \bigcirc \cap Ø7 107 **StoneL Corporation** 92 One StoneL Dr 29 26271 US Hwy 59 Fergus Falls, MN 56537 USA Telephone: 218.739.5774 Toll Free: 800.843.7866 Fax: 218.739.5776 © 2001 StoneL Corporation E-mail: sales@stonel.com Approval Agency Controlled Document.

Website: www.stonel.com

JM Model Options

Example: JMR9511E3

		Function	<u>Solenoid</u>	<u>Enclosure</u>	Conduit Entries
JM	R95				3 (3) 1/2" NPT
		Independent Outputs, Modbus	(Relay models not available with solenoid)	E Epoxy Coated	N (4) 1/2" NPT
	195	I/O Relay Module, 2 DI/2 DO/1 AI		Aluminum	6 (3) M20
		Interlocked Outputs, Modbus			M (4) M20
					9 (3) 3/4" NPT
					T (4) 3/4" NPT

General Specifications

Operating Life	Unlimited				
Materials of Construction					
Housing and Cover	Marine grade anodized aluminum				
	epoxy coating				
Clear Cover	Lexan [®] Polycarbonate				
Elastomer Seals	Buna-N				
Fasteners	Stainless Steel				
Warranty					
Complete Assemblies	Two Years				

Temperature Range-40° to +80° C (-23° to 180° F)Enclosure ProtectionNEMA 4, 4X & 6; IP67Hazardous Area RatingsExplosion Proof (Aluminum Cover)Class I, Div. 1 and 2, Groups B,C,DClass II, Div. 1 and 2, Groups E,F,GNon-incendive (Clear Cover)Class I, Div. 2, Groups A,B,C,DClass II, Div. 2, Groups E,F,G(Not all units carry approvals, consult factory)

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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.

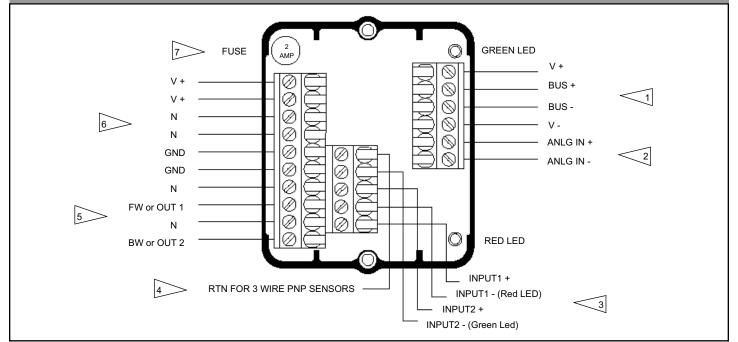
Installing & Removing Cover

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.

Modbus 2 DI/2 Relay DO/1 AI Input/Output Modules

Operating Voltage	24VDC (The 24VDC power source	External Voltage Up to 250VAC	; 30VDC(For Relay Outputs)
	should share the same ground refer-	Default Address 03	
	ence as the communication line)	Bit Assignment:	
Discrete Inputs	(2) 7mA @ 24VDC gold contact	Input Data	<u>Output Data</u>
	mechanical, low power reed, 2 wire	Input 1 (Red LED) = 10001	Output 1= 00001
	solid state, or 3 wire PNP solid state	Input 2 (Green LED) = 10002 Output 2 = 00002	
	sensors	Analog Input = 30001	
Analog Input	(1) Analog (4-20 mA) input. 10 bit		
	resolution (0.1%)	Operating Life Unlimited	
Relay Outputs	(2) 120/250VAC/30VDC fused @	Warranty Two Years	
	2 amps (Interlocked or Independent)		

Input/Relay Output Module Wiring Diagram and Installation Notes



INSTALLATION NOTES:

- 1. Modbus bus communications connection points.
- 2. 24VDC Bus powered Analog Input device connection points. (4-20mA)
- >3. Bus powered Discrete Input connection points for low power (7mA @ 24VDC) gold contact mechanical switches, low power reed, 2 wire solid state, or 3 wire PNP solid state proximity sensors (max allowable current leakage of sensors 0.2mA). Red LED is local indication of discrete Input 1 on/off status and the Green LED for discrete Input 2 on/off status.
- 4. Connection point for the "return" of 3 wire PNP sensors. (See Note 3)
- > 5. Connection points for devices to be controlled by the Relay Outputs. OUT1 and OUT2 are markings found on modules with independent outputs (461086). BW And FW markings are used on modules with interlocked outputs (461085). Modules with interlocked outputs are typically used with AC motors. BW and FW represent forward and reverse operation of the motor.
- > 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)

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