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Find the *Abaco Systems / VMIC VMIVME-2200-100* at our website: ***Click HERE***

VMIVME-2200
32-Channel Mercury-Wetted/Dry Reed Relay Output Board

- Optional mercury-wetted relays
  - — 32 relays per board
  - — Contact ratings
    - – One form A per relay
    - – Power: 50 VA maximum
    - – Voltage: 350 VDC or peak AC maximum
    - – Current: 0.5 A maximum switched; 2.0 A maximum carry
- Supports 8- or 16-bit data transfers
- Nonprivileged or supervisory short I/O access
- Optional dry reed relays
  - — 32 relays per board
  - — Contact ratings
    - – One form A
    - – Power: 10 VA maximum
    - – Voltage: 200 VDC or peak AC maximum
    - – Current: 0.75 A maximum switched; 2.00 A maximum carry
- DIP switch board address selection
- Optional contact protection electronics

FUNCTIONAL CHARACTERISTICS

Compatibility: VMEbus specification compatible. Double height form factor.

Output Connector Type: Dual 64-pin connectors (DIN 41612)

Output Organization: Four output ports, 8 bits wide. Addressable to any address within short supervisory or short nonprivileged I/O map.

Addressing Scheme: Four ports individually addressable on 8- or 16-bit boundaries. Fourteen DIP switches provide unlimited short data I/O address map selection.

Data Polarity: Order as positive true or negative true

Output Circuit: One Form A contact

MERCURY-WETTED CONTACT RATINGS

Power: 50 VA maximum

Voltage: 350 VDC or peak AC maximum

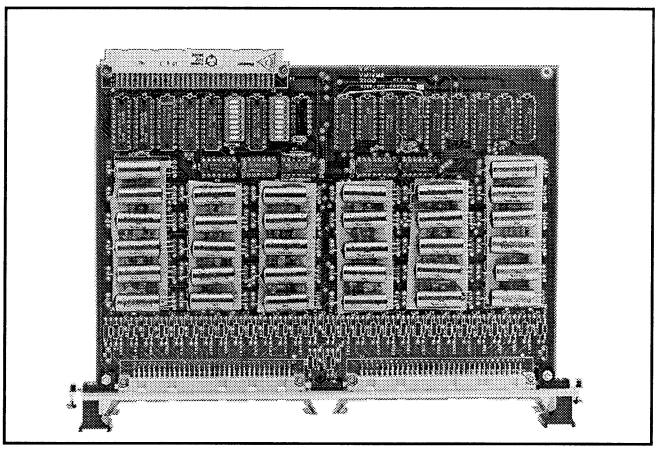
Current: 0.5 A maximum switched, 2 A carry

Contact Circuit Resistance: 70 mΩ, maximum stable within ±2 mΩ over life

Life Expectancy: 1 x 10^9 operations (with proper contact protection)

Insulation Resistance: 100 MΩ, minimum over open contacts, 10,000 MΩ between coil and contacts at 100 VDC

Breakdown Voltage: 1,000 VAC, RMS, minimum 50/60 Hz across open contacts, 500 VAC, RMS, 50/60 Hz, between all other mutually insulated terminals.



Timing:
Operate: 3 ms, maximum
Release: 3 ms, maximum with nominal voltage coil suppression

DRY REED CONTACT RATINGS

Power: 10 VA maximum

Voltage: 200 VDC or peak AC maximum

Current: 0.75 A maximum switched, 2 A carry

Contact Resistance (On Impedance):
250 mΩ, maximum, initial total circuit, measured at 10 mA, 1,000 Hz

Ordering Options								
June 7, 1999 800-002200-000 G	A	B	C	–	D	E	F	
VMIVME-2200	–				–			

A = Data Polarity
1 = Positive True
2 = Negative True
B = Contact Protection (kΩ)
0 = No Protection
1 = 50 V at 1 A
2 = 100 V at 0.5 A
3 = 200 V at 0.25 A
C = Relay Type
0 = Mercury Wetted [1]
1 = Dry Reed

Note

1. Mercury-wetted relays are position sensitive. They must be operated in the upright position.

Connector Data

Compatible Cable Connector	Panduit No. 120-964-435
Strain Relief	Panduit No. 100-000-072
PC Board Connector	Panduit No. 120-964-033A

Note

Panduit is also known as ITW/Pancon.

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
E-mail: info@vmic.com Web Address: www.vmic.com
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Life Expectancy: 100 x 10^6 operations at signal levels, 10 x 10^6 operations at full rated load

Insulation Resistance (Off Impedance): 10^{10} Ω minimum between all insulated points at 100 VDC +25 °C, 40 percent relative humidity

Dielectric Withstanding Voltage: 250 VAC, RMS, 50/60 Hz or 350 VDC across open contacts maximum, 500 VDC all other mutually insulated points.

Timing (At Nominal Voltage):
Operate: Less than one ms including bounce
Release: Less than one ms with nominal voltage Zener clamping

PHYSICAL/ENVIRONMENTAL

Temperature Range: 0 to 55 °C, operating -20 to 85 °C, storage

Relative Humidity Range: 20 to 80 percent, noncondensing

Cooling: Convection

Power Requirements: Typical 1.35, maximum 2.9

MTBF: VMIVME-2200-AB0 (mercury wetted) 56,974 hours (217E)

MTBF: VMIVME-2200-AB1 (dry reed) 40,332 hours (217E)

WARNING: Mercury-wetted relays are position sensitive. They must be operated in the upright position.

POSITIVE/NEGATIVE TRUE ORDERING INFORMATION — This board may be ordered with positive or negative true I/O options. The data conversion (inversion) is determined by the selection of data transceivers. A positive true output option causes a VMEbus logical *one* to turn the corresponding output relay on, which supplies the user with a closed contact. A negative true output option causes a VMEbus logical *one* to turn the corresponding output relay off, which supplies the user with an open contact.

TRADEMARKS

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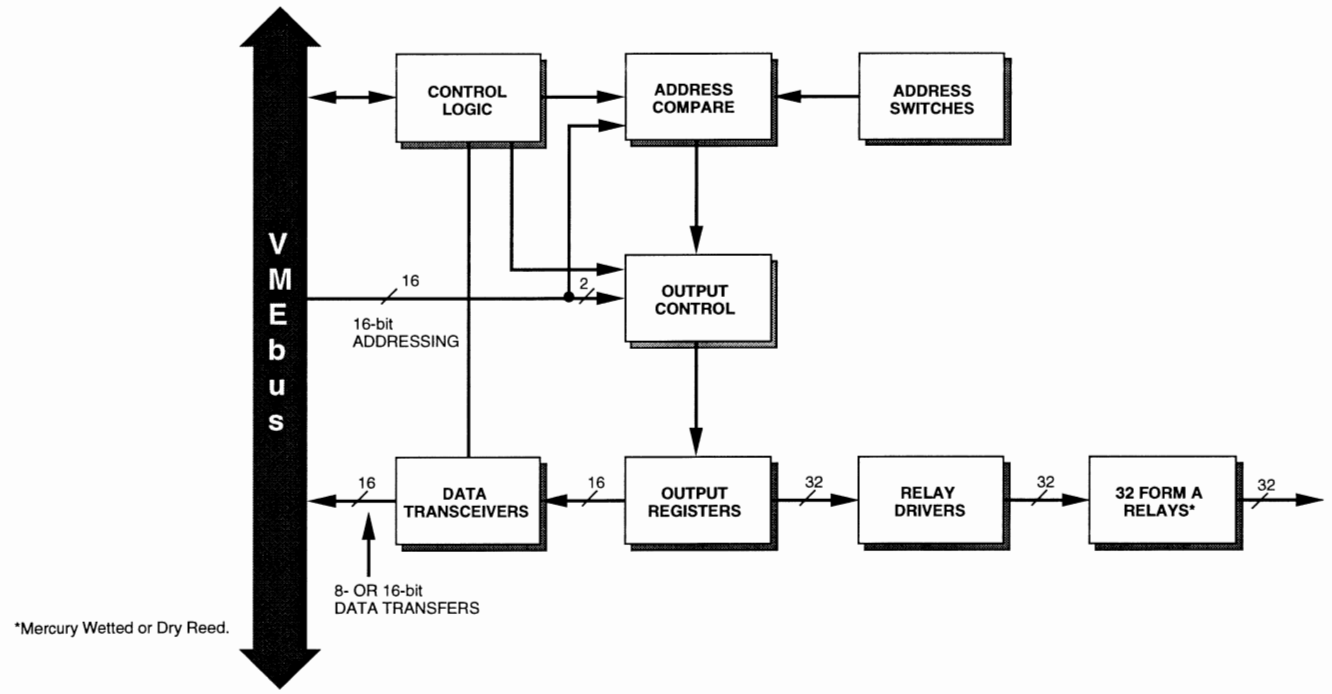


Figure 1. Functional Block Diagram

For Ordering Information, Call: 1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859

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