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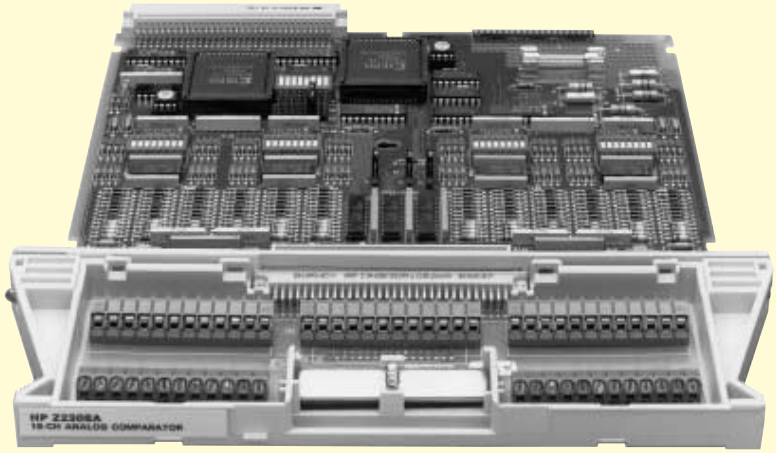
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Find the *Keysight / Agilent Z2308A* at our website: *Click HERE*

16-Channel Analog Comparator HP Z2308A (Nonstandard Product)

- **Each comparator is maskable and edge selectable**
- **Debounce circuitry (time-programmable) prevents erroneous readings with noisy inputs**
- **First channel to interrupt is stored in interrupt register**
- **±10 V and 100 V input ranges**

Module Size-Slots	**B-1**
Message- or Register-based	**RB**
HP Foundations Supported	**None**
VXI*plug&play* Frameworks Supported	**None**



Terminal module shown installed

Caution **The HP Z2308A is a custom (nonstandard) product. It is limited as follows:**

- **Full HP environmental specifications not tested**
- **Documentation abbreviated**
- **Some or all instrument drivers lacking**
- **On-site or HP repair center support not available**

Description

The Z2308A is a 16-channel analog comparator for differential voltages up to 100 V. Input ranges of 10 V (gain of 1) or 100 V (gain of 0.1) are DIP-switch selectable. Programmable debounce allows use for voltage limit detect in noisy environments. Individual outputs can be masked, combined, and inverted and are OR'd together to generate VXI backplane or external interrupt. This allows performing window comparisons to determine whether inputs enter or leave voltage windows. Also, the channel that first caused the interrupt is latched and can be read in the "first limit latch" register.

C-size Adapter

For adapting this product in a C-size mainframe, refer to the E1403B description in Chapter 12.

SPECIFICATIONS

Input

Maximum input voltage: Hi-to-Low, and Hi or Low-to-chassis, ±110 Vpk or DC

Maximum input operational voltage: Hi-to-Low, and Hi or Low-to-chassis, ±11 Vpk or DC on 10 V range, ±110 Vpk or DC on 100 V range.

Input Resistance

Differential: >200 kΩ

To chassis:

10 V range: >200 kΩ

100 V range: >100 kΩ

Debounce: programmable from 16 µs to 220 ms

Input offset: 5 mV on 10 V range, 30 mV on 100 V range

DC common mode rejection: 54 dB

Input Reference

Maximum reference voltage: ±40 Vpk or DC to chassis

Maximum operational reference voltage: +11 V dc

Reference input resistance to chassis: 10 kΩ

Output

Gain accuracy: 0.2%

Compare outputs: source 1 kΩ pullup to +5 V; sink up to 500 mA

Open collector interrupt output: source 500 µA at 5 V through an internal 10 kΩ pullup resistor; sink up to 100 mA at 0.7 V

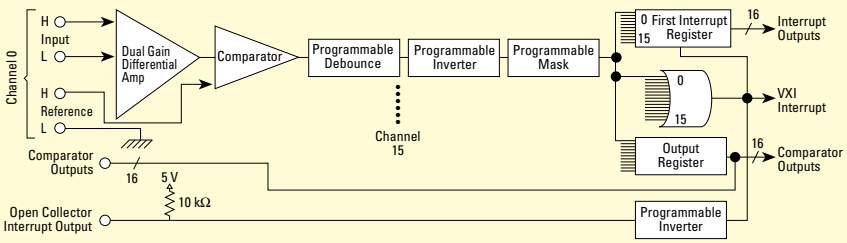
Power Requirements

See Module Power and Cooling Information Table in Appendix A-1.

Ordering Information

16-Ch Analog Comparator.....HP Z2308A

Note: This is a special HP product. Ask your HP Field Engineer to contact the HP VXI Systems Division for a formal price quote and delivery.



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