

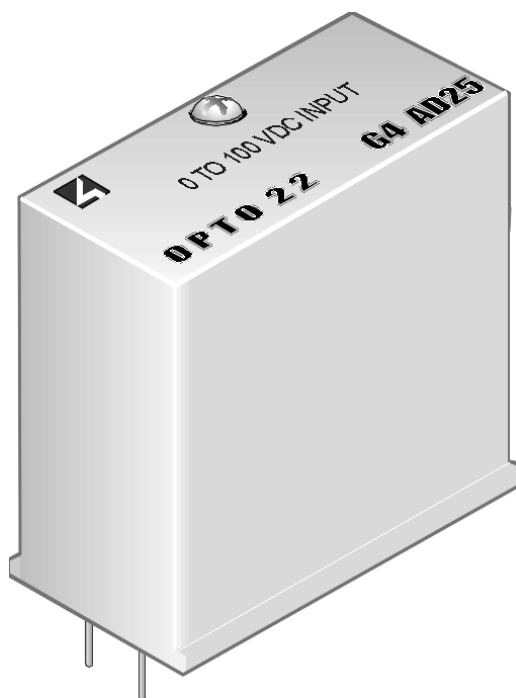
### Description

The G4AD25 module provides a single channel of transformer and optically-isolated analog-to-digital conversion. The nominal input range is 0 to 100 volts AC or DC with an over range capability to 263 volts. The G4AD25 module can survive to 500 volts peak applied directly across its inputs. The G4AD25 may be used to monitor 120/240 volt AC/DC and 12/24/48 volt AC/DC system voltage. The module plugs into an Opto 22 Modular controller or an analog

brick and is secured by a captive screw. The field connections are made through four contacts to the terminal strip located on the brick base or controller I/O board.

NOTE: Any system using analog sensors and input modules should be calibrated annually for analog signals. To do so, use OptoControl commands "Calculate and Set Analog Offset" and "Calculate and Set Analog Gain."

Part Number	Description
G4AD25	0 to 100 Volt AC/DC Input



## DATA SHEET

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Form 601-050809

### Specifications

#### G4AD25 Specifications

Nominal Input Range	0 to 100 V true rms AC/DC
Input Over Range	100 V to 263 V
Resolution	24.4 mV from 0 to 100 V 48.8 mV from 100 to 200 V 97.7 mV from 200 to 263.7 V
Input Response Time	5% of scale change 5 Volts/millisecond 63.2% of scale change 63.2 Volts/200 milliseconds 99.9% of scale change 99 Volts/1200 milliseconds
DC Common Mode Rejection	-120 dB
AC Common Mode Rejection	-120 dB @ 60 Hz
Maximum Operating Common Mode Voltage	750 VDC or peak AC
Input vs Output Zero Scale (1,920 Hz) Full Scale (9,600 Hz)	0 V 100 V
Accuracy	0.5 V (0.5%)
DC Reversal	± 0.3 V (0.3%)
Power Requirements	24 VDC (± 0.5 V) @ 40 mA logic supply 5.5 V maximum @ 15 mA
Input Resistance Differential Common Mode	1 MΩ 1,000 MΩ
Ambient Temperature Operating Storage	0° to 70° C -25° to 85° C