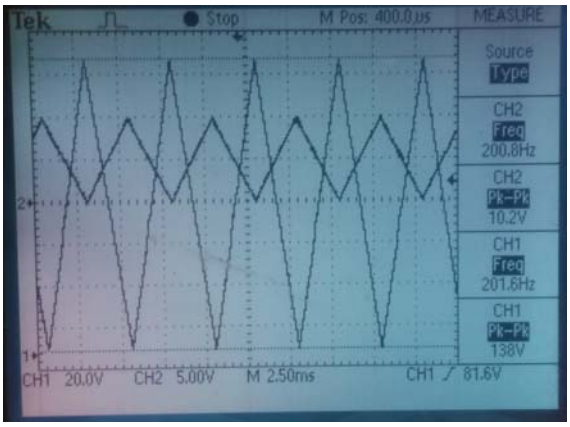
SMART SENSING INSTRUMENTS
HIGH ACCURACY RUGGED INSTRUMENTS
(978) 494-0802

# HIGH VOLTAGE PIEZO DRIVER

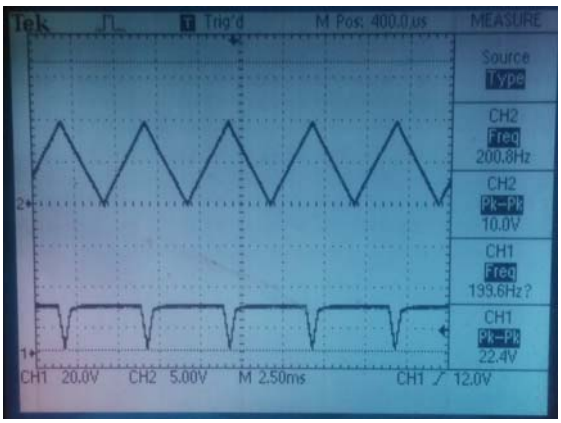

| FEATURES |
|---|
| Single +24V DC Powered, 0-10V Analog Input High Voltage Amplifier |
| Enable/Disable feature |
| Screw In Terminal Connectors, No Soldering Needed |
| Suitable for Capacitive Load like Piezo or Resistive Load |
| Mounting Slots |
| Active Cooling |
| All RoHS Components |

| SPECIFICATIONS | |
|---|---|
| Power Supply | +24V |
| Modulation Input | Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit |
| Voltage Output | 0-140Vpk-pk |
| Max Output Current | 112 mA |
| Cooling | Active, Noise Level 25dB |
| Operating Temperature | -20 – 35 C |
| Dimensions | 61mm x 147mm x 160mm |
| Max Load | Within max current load limit, capacitive or resistive |
| Bandwidth w/o load | 25KHz |

**Sample Results:**




2 uF Capacitive Load with 200Hz Triangle Wave Input




Disable ON (pin5 = +24V), the output is 24V with the Analog Input 0-10V triangle wave

**Calculate Driving Current:**

1. Modulate with Triangle Wave

I = 2*f*C_load*Vpk-pk

For example, the max current for 200Hz triangle modulation on 2uF load, 140Vpk-pk equals:

2*200*2e-6*140 = 112mA

2. Modulate with Sine Wave

I = C_load*π*f*Vpk-pk

For example, the max current for 150Hz sine wave modulation on 1uF load, 140Vpk-pk equals:

1e-6*3.14*150*140 = 66mA


| PIN OUT SPECIFICATIONS (start from left to right) | |
|---|---|
| PIN1 | +24VDC Power Supply, use PIN 2 PIN 3 as power return |
| PIN4 | EN: float or GND<br>DIS: +5V ~ +24V DC |
| PIN6 | Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit |
| PIN5 & PIN 7 | GND |
| PIN 9 | HV Out |
| PIN 10 | HV Return |
| PIN 8 | No connection, leave unconnected |

**Mating connector:**

**TE 1-284511-0**

**FCI TJ1031530000G**

To Send Quotation:
Email: smartsensinginternational@gmail.com
Telephone: 978-494-0802