

## Model 531 Heavy Duty Joysticks

A two axis high integrity, potentiometer-based, precision displacement, fingertip operated control designed specifically for those tough applications which require a tough joystick. The Model 531 joystick produces analog output with voltages proportional to angle of joystick vs. input voltage.

First patented and introduced by Ultra MSI in 1999, this device offers many benefits over traditional potentiometer and inductive joystick designs.

A robust alternative to molded plastic joysticks, the Model 531 is extremely useful in applications where rugged components are a necessity.



### Applications:

- Robotics
- Construction Equipment
- Hydraulic Controls
- Forklifts
- Conveyor Systems
- Video Arcade
- Medical Surgery/Cursor
- Security Cameras
- Video Cameras
- Vehicle Control
- Remote Operated Vehicle (ROV) Control
- Flight Control
- Electric Wheelchair
- Hoists, Cranes
- Industrial Processing
- X-Y Inspection Table
- Scientific Instrumentation

### Choices:

- Model 531 Standard Two Axis
- Model 531P Standard Two Axis with Pushbutton

### Features:

- Rugged All Metal Construction
- Rugged All Metal Machined Gimbal
- Hi Reliability Conductive Plastic potentiometers – Center Tapped
- Many Options available (see Options Matrix)
- Linear outputs
- Engineered to meet most stringent environmental requirements
- Can be integrated into a full system

### Technical Info:

- Weight: 0.4 lbs. (.18 Kg) Nominal
- Depth: 1.60" Max Below Panel
- Width: 2.71" Max to Potentiometer
- Height: 3.00" Above Panel
- Operating Temperature: -25C to +100C
- Seal: Drip Proof, Moisture Proof
- Breakout Actuating Force: 3.5 Ounces (.1 Kg) Nominal
- Full Scale Output Force: 8 Ounces (.23 Kg) Nominal
- Angular Travel: 28 Degrees, Spring Return to Center
- Linearity: +-5%
- Resistance: 5K Ohms at full travel
- Life: Minimum 200,000 Cycles

Refer to Options Matrix for more options

