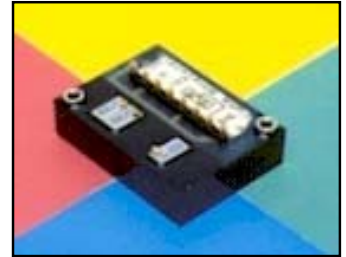


MUPI-2 - *Universal Signal Conditioner*

The MUPI-2 *Universal Signal Conditioner* is a self contained, fully functional and adjustable conditioning module. This compact epoxy encapsulated package contains all the electronics and interface circuitry required, to operate any *Spectron* single axis electrolytic tilt sensor. Utilizing MIL spec components, this bipolar DC input/output operated device internally generates the required AC excitation voltage for the sensor, and demodulates the sensor output into a smooth amplified DC output voltage. The **MUPI-2** also features zero offset / gain / symmetry adjustments, bifurcated/solderable terminals for easy installation, and vibration and shock survivability capabilities for hostile environments. In-line quality control during manufacturing assures maximum reliability in both commercial and military applications.



General Specifications

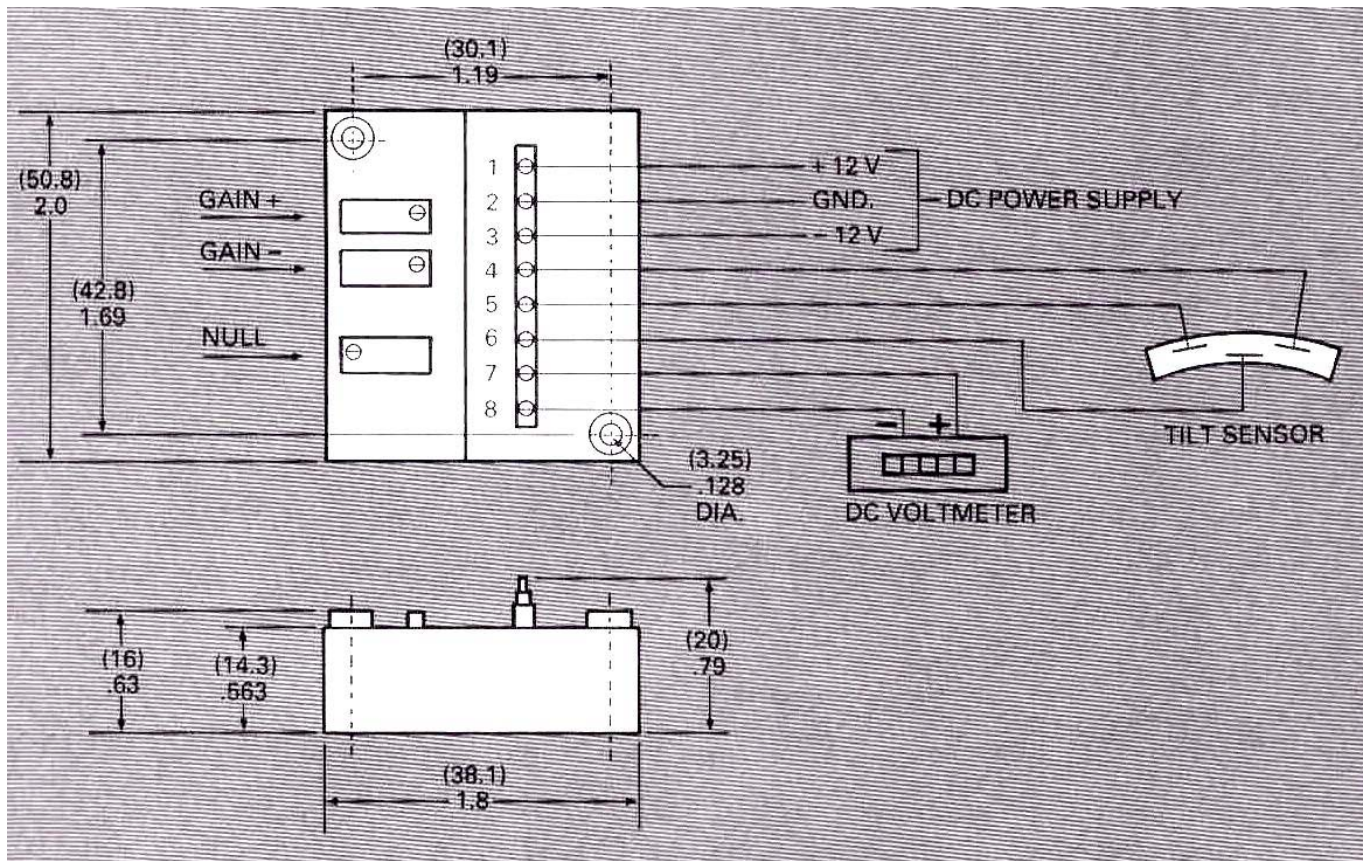
Input voltage +/-10 to +/-16Vdc
Input current 20mA (maximum)
Sensor excitation 5V pp, square wave, 1kHz (nominal) Input impedance 5 megohms
Output +/-7Vdc @ +/-10Vdc input
Linearity 0.03% of full scale (maximum) Time constant 40 msec
Offset adjustment +/-1Vdc
Output ripple 0.3% pp of output signal
Zero adjustment range +/-1% of full scale output
Symmetry and Gain adjustment Individual plus (+) and minus (-) gain adjustments, 4:1 symmetry correction
Weight 60 grams
Temperature coefficients (module w/out sensor)
- Null 0.02% full scale / C^o
- Scale 0.03% full scale / C^o
Temperature range
- Operating 25 to +70C^o
- Storage 40 to +80C^o
Vibration 2g, 10 - 500Hz
Shock 20g, 11 milliseconds, 3 directions

駿融企業有限公司 JIN ZON ENTERPRISE CO., LTD.
104 台北市長安東路二段 171 號 4 樓之 3
4F-3, No. 171, Sec. 2, Chang An E. Rd., Taipei, Taiwan, R. O. C.
TEL: 886-2-27111093~5 FAX: 886-2-27310902
E-mail: jinzon@ms2.hinet.net Http:// www.jinzon.com.tw/

MUPI-2 - *Universal Signal Conditioner*

Dimensions, Electrical Connections, and Adjustments

inches (mm)



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