

DHU 30 Uniaxial

Gravity Referenced, Servo Inclinometer

A Single Axis, Extremely Compact Inclinometer available as Standard with an Output of +/-0.5V over a Tilt Range of +/-30°

FEATURES

- Single Unregulated Power Supply Requirement of +5.5V to 35V
- Exceptionally low Current Consumption of just 3mA
- High Shock Capacity of 1000g due to low Seismic Mass required by the Design of the Torque Motor
- Very low Zero and Scale Factor Shift with Temperature
- Fluid Damped Suspension gives High Output Stability
- Individually Calibrated and Certified

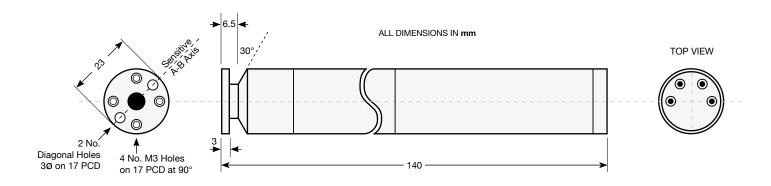


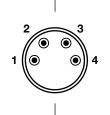
Tilt Ranges from +/-5° to +/-90° are available with a range of Output Voltages to suit customer requirements.



SPECIFICATIONS

| PARAMETER | VALUE | UNIT |
|--|--------------------|----------------------------|
| Full Scale Range | ±30 | DegTilt |
| Mechanical Off-Set @ Zero DegTilt | 0.3 | DegTilt (Max) |
| Error in Conformance to SINE Law | 0.01 | % FSO (Max) |
| Output Impedance | | Kilo Ohm |
| Electrical Offset | 0.001 | Volts (Max) |
| Resolution | 1 | arc seconds |
| Shock Survival | 1000 | g 0.0 l sec's ½ Sine Volts |
| Supply Voltage | +5 to + 35 | Volts |
| Supply Current | 3 | mA |
| Output Voltage | ±0.5 V. ± 0.0005 V | D.C. Full Range |
| Scale Thermal Sensitivity | 0.002 | % FSO/Deg C (Max) |
| Zero Tilt Thermal Sensitivity | 0.002 | % FSO/Deg C (Max) |
| Operating Temperature Range | -20 to +50 | Deg Centigrade |
| Survival and Storage Temperature Range | -40 to +70 | Deg Centigrade |





PIN CONNECTIONS

- +Ve Supply +5.5 to 35V at 3mA
- 2 Supply 0V
- 3 Output
- 4 Output Return

