

## DHU 30 Uniaxial Gravity Referenced, Servo Inclinometer

**A Single Axis, Extremely Compact Inclinometer available as Standard with an Output of  $\pm 0.5V$  over a Tilt Range of  $\pm 30^\circ$**

### 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  $\pm 5^\circ$  to  $\pm 90^\circ$  are available with a range of Output Voltages to suit customer requirements.**

## SPECIFICATIONS

PARAMETER	VALUE	UNIT
Full Scale Range	±30	Deg Tilt
Mechanical Off-Set @ Zero Deg Tilt	0.3	Deg Tilt (Max)
Error in Conformance to SINE Law	0.01	% FSO (Max)
Output Impedance	1	Kilo Ohm
Electrical Offset	0.001	Volts (Max)
Resolution	1	arc seconds
Shock Survival	1000	g 0.01 sec's ½ Sine Volts
Supply Voltage	+5 to +35	Volts
Supply Current	3	mA
Output Voltage	±0.5 V. ± 0.0005V	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

