

FHU 30 Uniaxial Gravity Referenced, Servo Incliner

**A Single Axis, In-Place
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
- Automatic Temperature Compensation gives Very low Zero and Scale Factor Shift with Temperature.
- Fluid Damped Suspension gives High Output Stability
- Individually Calibrated and Certified
- Tamper Proof, IP68 Rated Enclosure with IP68 Rated Connectors



Applications include Radar, Antenna and Weapons Platform levelling, Offshore Platform Control, Structural Monitoring of Bridge Deck and Columns, Dam Walls and any application that requires High Precision Levelling and Monitoring Systems.

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)
Hysteresis and Resolution	0.001	% FSO (Max)
Shock Survival	1000	g 0.01 sec's ½ Sine
Supply Voltage	+5.5 to + 35	Volts (Max)
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	0 to +50	Deg Centigrade
Survival and Storage Temperature Range	-25 to +70	Deg Centigrade

