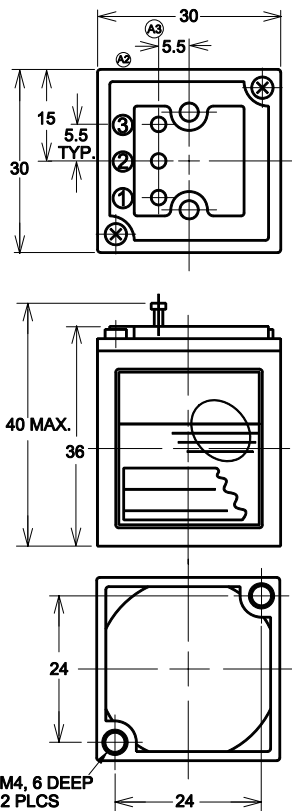
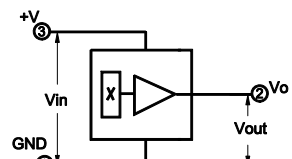
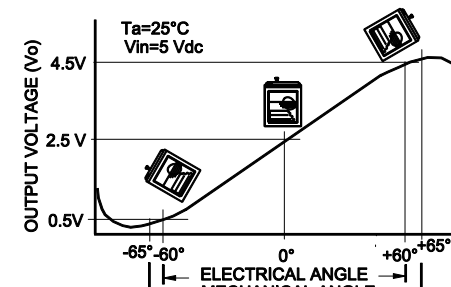
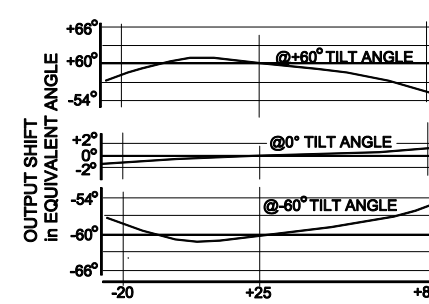


REF. NO:		REVISION				
		C.O.N	SYM	DESCRIPTION	DATE	DRAWN APPR'D
1.0 GENERAL DESCRIPTION:				(1) WAS "OUTPUT CURRENT: 0.5mA MAX." (2)"10" DELETED. (3) ADDED "5.5".	10/3/02	T.TSUGAWA Y.N.
MODEL UV-00H IS A HIGHLY RELIABLE WIDE ANGLE INCLINOMETER, DESIGNED WITH MIDORI PROPRIETARY "BUOY-FLOAT/PENDULUM" CONCEPT. THIS UNIQUE CONCEPT ALLOWS THE INCLINOMETER TO HAVE A LITTLE OR NO MECHANICAL LOAD ON THE PIVOT, FEATURING LONG OPERATING LIFE AND A MINIMAL SHOCK AND VIBRATION EFFECT. WITH A TEMPERATURE STABLE AND SIGNAL CONDITIONED "HALL EFFECT IC SENSOR" AND SEALED HOUSING, IT OFFERS A USER AN OPTIMUM SOLUTION FOR WIDE TILT ANGLE SENSING APPLICATIONS IN SEVERE OPERATING ENVIRONMENT.						
2.0 SPECIFICATIONS: (REFER TO FIGURES 1, 2 AND 3)						
2.1 TILT ANGLE:						
2.2 INPUT VOLTAGE, V_{in}:		5 Vdc $\pm 10\%$				
2.3 OPERATING CURRENT:		10 mA MAX.				
2.4 OUTPUT CHARACTERISTICS: ($T_a = 25^\circ\text{C}$, $V_{in} = 5\text{ Vdc}$, $R_L = 10\text{ KOHMS}$)		(1) SENSITIVITY: $34 \pm 7\text{ mV/}^\circ$ (2) INDEPENDENT LINEARITY: -30° to $+30^\circ$ RANGE: $\pm 1.5\%$ FS (FS= 60°) -60° to $+60^\circ$ RANGE: $\pm 3.0\%$ FS (FS= 120°) (3) SENSIBILITY: -30° to $+30^\circ$ RANGE: 0.4° (INCLUDING HYSTERESIS) -60° to $+60^\circ$ RANGE: 0.8° (INCLUDING HYSTERESIS) (4) RESPONSE TIME: APPROX. 0.5 SECONDS (5) OUTPUT LOAD: 10 KOHMS MIN. (6) INDEX POINT: $2.5 \pm 0.25\text{ V}$				
2.5 INSULATION RESISTANCE:		100 meg OHMS MIN. @50Vdc				
2.6 OPERATING AND STORAGE TEMPERATURE:		-20°C to $+80^\circ\text{C}$				
2.7 TEMPERATURE EFFECT: (EXPRESSED AS CHANGE IN EQUIVALENT ANGLE OVER THE OPERATING TEMPERATURE RANGE, REFERENCED FROM $T_a = 25^\circ\text{C}$)		(1) @ 0° TILT ANGLE: $\pm 2^\circ$ MAX. (2) @ $\pm 60^\circ$ TILT ANGLE: $\pm 6^\circ$ MAX.				
2.8 VIBRATION: 10 Gs, 20 Hz to 400 Hz						
2.9 SHOCK: 100 Gs		2.10 WEIGHT: APPROX. 35 gm				
2.11 MATERIAL:		HOUSING: PBT, CARBON FILLED				
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN mm(in).		FIGURE 1 OUTLINE DIMENSIONS				
TOLERANCES:		FIGURE 4 TEMP. CHARACTERISTICS (REF. ONLY)				
ANGLES: $\pm 1.5^\circ$		SPECIFICATION DWG				
$\leq 10\text{ mm: } \pm 0.25$		FOR				
$< 100\text{ mm: } \pm 0.5$		MODEL UV-00H				
$\geq 100\text{ mm: } \pm 1$		INCLINOMETER, WIDE ANGLE				
		BOUY-FLOAT/PENDULUM TYPE				
		B-MAC-B50 A				
		1 OF 1				

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