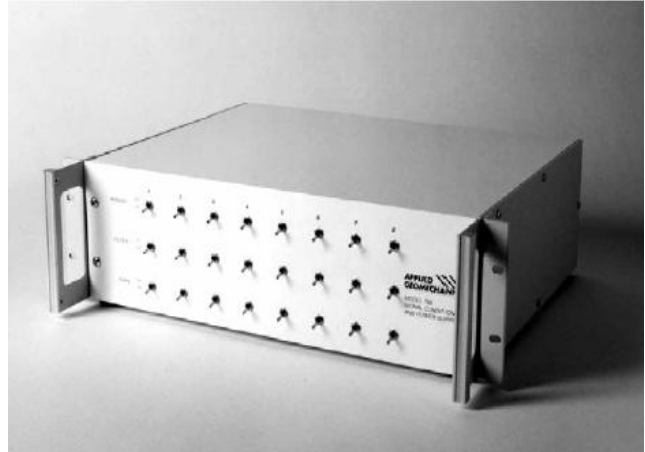


786 Rack Mount Signal Conditioning Unit

El 786 es un conveniente acondicionador de señal multi canales de montaje en rack para usarse con todos los sensores electrolíticos de inclinación. Producirá un funcionamiento superior de sus sensores de inclinación de las series 755, 756, 757 y 758. El 786 excita simultáneamente dos a dieciséis canales de inclinación y acondiciona las señales de retorno en salidas análogas de alto nivel proporcional al ángulo de inclinación. Los interruptores de control y ganancia del filtro en el panel delantero de esta unidad de CA agregan flexibilidad a sus mediciones. El modelo 786 también toma lecturas de temperatura de los sensores LM35 de Nacional Semiconductors.



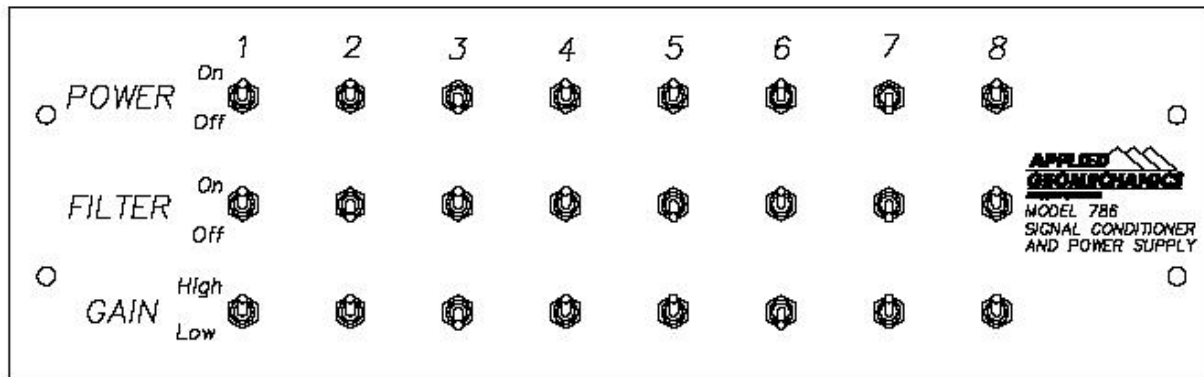
INPUT CHANNELS	Expandable in pairs from 2 to 16 tilt sensors; one LM-35 temperature sensor channel is supplied for every two tilt channels			
TILT OUTPUT	2 to 16 single-ended and 2 to 16 differential analog, proportional to tilt: Output voltage range: ± 8 VDC (single-ended), ± 16 VDC (differential)			
OUTPUT GAINS	Two switchable gains provided per pair of tilt channels, 10:1 ratio standard, other ratios on request			
SCALE FACTORS†	<u>When used with:</u>	<u>High-Gain</u>	<u>Low-Gain</u>	<u>Range</u>
	755-Series Sensors:	0.1 μ radian/mV*	1.0 μ radian/mV	± 8000 μ radians
	756-Series Sensors:	0.1 degree/V	1.0 degree/V	± 8 degrees
	757-Series Sensors:	1.0 degree/V	10 degrees/V	± 60 degrees
OUTPUT FILTERS	Two switchable low-pass integrators, roll-off = 6 dB/octave. Time constants: 0.05 and 7.5 seconds, other settings on request			
TEMPERATURE OUTPUT	0.1°C/mV (single-ended), -40° to $+100^{\circ}$ C, $\pm 0.75^{\circ}$ C accuracy, 0° C = 0 mV			
OUTPUT IMPEDANCE	270 ohms, short circuit and surge protected			
POWER REQUIREMENTS	110-120 VAC American version or 220-240 VAC export version, @ 50-60 Hz; fuse protected (1 Amp)			
CONNECTIONS	Quarter-turn connectors for tilt & temperature inputs; DB25 subminiature connectors for output. All connections on rear panel.			
ENVIRONMENTAL MATERIALS	-25° to $+70^{\circ}$ C operational, -30° to $+100^{\circ}$ C storage; 0 to 90% humidity, noncondensing Painted aluminum and steel case			
SIZE & WEIGHT	19 x 5 x 15 inch (483 x 127 x 381 mm), EIA standard 19-inch rack mount; 8.5 lb (3.9 kg)			

* 1 degree = 3600 arc seconds = 17453 μ radians (microradians)

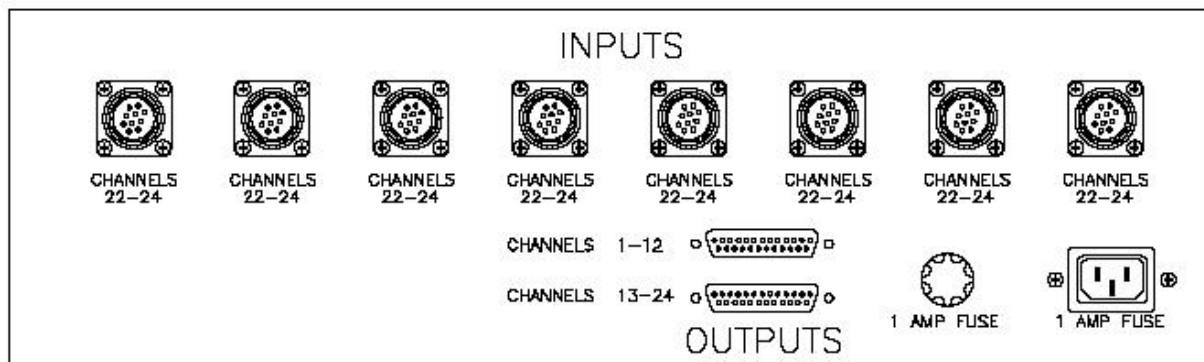
† Single-ended outputs; divide by 2 for differential scale factors.

786 Rack Mount Signal Conditioning Unit

Model 786 Signal Conditioning Unit,



Front panel layout and switches



Rear panel layout and connectors

Ordering Information

Model 786-2	Signal Conditioning Unit with 2 tilt channels and 1 temperature channel
Model 786-4	Signal Conditioning Unit with 4 tilt channels and 2 temperature channels
Model 786-X	X = number of tilt channels (expandable in pairs up to 16). Example: Model 786-16 has 16 tilt channels and 8 temperature channels.
P/N 70308	Sensor Hook-up Cable