Model A906 "Little Dipper" IPI



The model A906 "Little Dipper" is a precision, low-cost In-Place Inclinometer (IPI) system for monitoring slopes, retaining walls, embankments, ground subsidence and settlement, and more. Units install easily in standard inclinometer casings, or can be grouted or buried directly into place. All A906 IPI's are pressure rated to +72 psi. With ±3 VDC output units also easily connect to any voltage input datalogger. The A906 is configurable for use for use in both vertical and horizontal boreholes. Units ship standard with 3m cable (specify additional cable length on order).



	High-Gain	Standard
Angular Range	±12°	±30°
Resolution ¹	<0.005°	<0.01°
Repeatability	0.01°	0.02°
Scale Factor ²	4°/V	10/V
Non-Linearity ³	0.8% (full span)	1% (half span); 4% (full span)
Output	±3.0VDC	
Channels	X-tilt, Y-tilt, Temperature	
Kz Coefficient (deg/C)	±5 arcsec/C (typical)	
Ks Coefficient (%/C)	±0.03%/C (typical)	
Time Constant	0.15 sec	
Natural Frequency	10 Hz	
Power	+8 to +24 VDC; 7mA, 250 mV ripple max, reverse polarity protected	
Environmental	-25 to +70 C; Submersible to72psi (5 bar); 100% humidity (non-condensing)	
Dimensions	231 x 39 mm (9.25 x 1.55 in.), 0.35kg (0.75 lb.)	
Materials	Cylindrical ABS housing, Delrin (guide fins)	
Cable	Multiconductor, PVC jacket, polypropylene	insulation, overall shield, 0.2 in. (5mm) dia.

^{*}Specifications subject to change without notice on account of continued development; ¹Resolution calculated at 1mV; ²Linear scale factor calculated from BFSL through calibration curve; ³Linearity calculated as max % deviation from BFSL. 0.05% linearity achievable using a polynomial

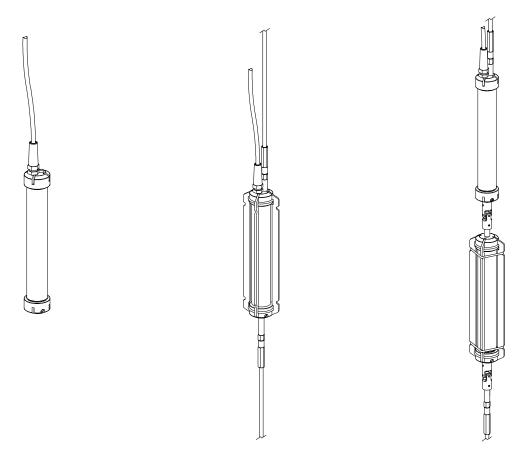
Ordering Code: A906 - T - B N - H: Horizontal V: Vertical N: Non-Damped B: Biaxial T: Temperature Sensor H: High Gain (±12°) S: Standard Gain (±30°)

Pin-out/Wiring:

Color	Function
Red	V+
Black	GND
Blue	X-Out
Green	Y-Out
Yellow	Temp Out



A906 "Little Dipper" Installation Configurations

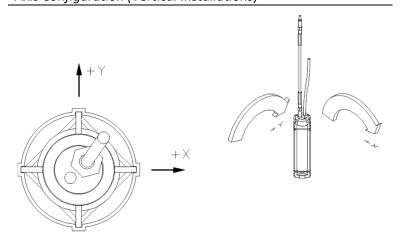


Little Dipper Sensor Module Direct Burial Installation

Little Dipper with Guide Fins Multiple-Point Installation

Little Dipper with Universal Pivot Multiple-Interval Installation

Axis Configuration (Vertical Installations)



Accessories:

Part No.	Description	
86816-04	Set of 4 guide fins for 3.34 inch (85 mm) casing	
86803-01	Universal pivot assembly (order guide fins separately)	
86801	Fiberglass connecting rod (specify sensor spacing)	
86802	Hanger assembly (vertical boreholes)	
86818	Tensioning weight (vertical boreholes)	
70369	6-conductor cable (specify total length on order)	