CALC *(CABLE ARM LINE COUNTER)*

Precision Clamshell Dredging

- Machine pitch/roll
- Barge pitch/roll
- Draft compensation
- Accuracy .3 feet**
- 1mm bucket depth resolution for cable lengths up to 2000 kilometers
- 2 AB quadrature encoder inputs for holding and closing line
- Input for layer counter to improve accuracy
- CANopen Protocol
- Built in temperature compensated precision barometric pressure sensor
- Output of RAW sensor data for use in other connected systems or software
- Simple operation- once installed the operator will only zero the system
- Low drift- should not need to be zeroed for a minimum of 12 hours or ranged for 6 months unless the cable length is changed
- Wide input voltage range of 6 to 40 volts
- Spray proof brain and submersible sensors
- Wide operating temperature -40C to 85C
- Extremely low operating current
- Output rates of up to 50ms
- ASCII output of all raw sensor and calculated data

	CONDITIONS	MIN	TYPICAL	MAX	UNIT
Input voltage		6.0	13.8 or24	40	Volt
Input current	No external devices connected		51	100	mA
Power consumption	No external devices connected Average over 1 second		877	4000	mWatt
12V supply current	VIN ≥ 12V, AUX and/or Encoder Power			1	A
5v supply current	VIN ≥ 12V, AUX and/or Encoder Power			2	A
Data output rate (RS-232)		.050	.250	12	Sec
RS-232 Baud rate			115200		Baud
CAN Baud rate			125k		Baud
Temperature		-40	25	85	°C

**Accuracy is based on installation and calibration.

CALC is a stand-alone cable depth system for cranes. This hardware solution is a perfect complement to your existing positioning system. CALC outputs ASCII standard which allows it to work with any software package.* RAW data from the system sensors is made available for use in your positioning system. It also features a user feedback sensor, depth alarms, and options for clamshell open/close status. The CALC system is designed to work on any crane style and the brain is small and rugged enough to fit anywhere in your crane's engine room or cab.

*3rd party software drivers may be needed

CABLE ARM POSITIONING

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