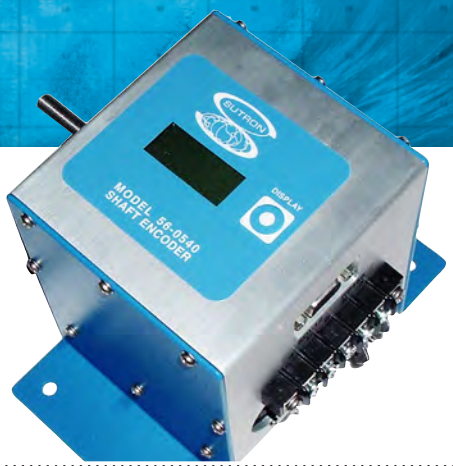
Measures stage (level) of rivers, streams, reservoirs, & other bodies of water

SDI-12 SHAFT ENCODER SYSTEM 5600-0532-1



- ☑ **Groundwater monitoring**
- ☑ **Gate position indicator**
- ☑ **Compatible with SDI-12 Data Loggers**

SHAFT ENCODER FEATURES

- Revolves one rotation of the 5/16 in. input shaft into 400 increments
- Low power (less than 2.5mA from a 12VDC supply @ 2.5 rev/sec)
- Interfaces: SDI-12, SDI-12 over RS-485, RS-232
- Uses solid state, low power optical sensor technology
- Low starting torque (less than 0.25 ounce/inch)
- Surge protected
- Externally accessible, internal back-up battery (AA)
- Accepts commands & returns data in SDI-12 format, to interface with SDI-12 dataloggers such as Xpert
- User selectable resolution (32 bit resolution counter)
- User specified scaling (Does not require specific circumference wheel).
- User selectable direction for increasing counts (CW or CCW).
- 7 digit range (SDI-12) 2 decimal place resolution: ±99999.99. 3 decimal place resolution, ±9999.999.
- Programmable rate of change tracking. Factory default 2.5 rev/sec.
- Built-in 2 line by 8 character LCD display with backlight
- Internal back-up battery voltage readable via SDI-12
- Excessive shaft speed indicated on display.
- Display is continuously updated with current value.
- Double bearing design to support up to 10 lbs on the shaft.

SHAFT ENCODER SYSTEM

Includes all of the following:

56-0540-400-DTR	Shaft Encoder
5100-0540	Float Wheel, 500mm revolution, use w/perforated tape for 5/16" shaft, aluminum with nylon insert
4211-1008-25	Perforated Unmarked Steel Tape, 25m
5100-0530-2	PVC Float, 6" diameter
5100-0550	Counterweight, 8 oz
5100-0620-1	End Hook Set for use with floats & counterweights (2 hooks/set)

SPECIFICATIONS

Specifications subject to change without notice

Input Voltage	7 to 16 VDC over voltage and reverse voltage protected
Power Consumption	< 2.5 mA @ 12 VDC and 2.5 rev/sec
Starting Torque	< 0.25 inch-ounce
Shaft Diameter	5/16 inch with both threads and a flat
Rotation Resolution	400 count per revolution
Counter resolution	32 bit
Reported resolution	User selectable Range 7 decimal digits (examples: ±99999.99 or ±9999.999)
Display	2 line, 8 character per line with backlight
Backup Battery	AA size, 1.5V or 3.6V accepted
Bearing Supports	Double bearing arrangement supports up to 10 lb. shaft load
Supported Wheels	User specifies wheel size - no required circumference
Support Units	User specified
Rotation Speed	User specified - factory default 2.5 rev/s
Maximum Rotation Speed 5 rev/s	
Temperature Range	-40°C to +60°C (Display viewable -20°C to +60°C)
Communication Interfaces	SDI-12, RS-232, SDI-12 protocol over RS-485 (on -DT unit)
SDI-12 Support	V1.3 - will work with V1.0, V1.1, V1.2, and V1.3 dataloggers

ORDERING

5600-0532-1	SDI-12 Shaft Encoder System
56-0540-400-DTR	Ruggedized. SDI 12 Shaft Encoder, 400 count resolution with display & terminal strip

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