

ABSOLUTE SHAFT ENCODERS MODEL AD375A, AD150A, AD100A

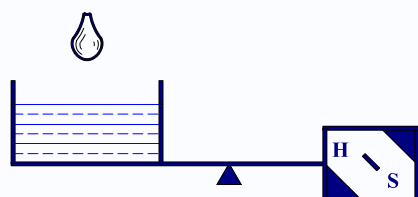


- High Accuracy 0.01% F.S.
- 4-20mA, SDI-12, RS232
- Programmable LCD
 - Time, date, level reading, resolution, range
- Takes standard float kits
- Digitises water level readings
- Absolute level readings
- Robust construction
- Lithium battery backup

ISO
9001

QUALITY SYSTEM
CERTIFIED

HYDROLOGICAL SERVICES PTY.LTD



HYDROLOGICAL INSTRUMENTS & EQUIPMENTS
DESIGNED AND MANUFACTURED
BY HYDROLOGISTS

DESCRIPTION

The Hydrological Services Absolute Shaft Encoder model AD375A, AD150A and AD100A are low power, computerized shaft encoders designed for field operation to enable measurement of water level. The internal CMOS circuitry enables the encoder to output measured levels in absolute format.

The absolute shaft encoder produces pulses as the shaft rotates, totalises the signal and outputs either 4 to 20 mA, SDI12 or RS232. This signal relates to absolute level change from a set datum.

The signal can be viewed via the LCD display showing range, resolution, time, date and current water level.

INTERFACES

The shaft encoder can be float operated or connected to other servo mechanical sensors, chart recorders and weir gates with drive gears or chain and sprocket assemblies.



SPECIFICATIONS

Physical and Environmental

Size: 245(L) x 125 (H) x 150 (D)
Material: Diecast Aluminium enclosure (IP65)
Weight: 1.5kg

Temperature

Range: -10 °C to 60 °C (14 °F to 140 °F)
LCD: -10 °C to 60 °C (14 °F to 140 °F)
Humidity: 95% non-condensing

Mechanical

Torque: 25gm cm (0.35 oz.inch)
Follow Rate: 10 metres per minute
Pulses/Rev : 375 pulses per revolution (AD375A) metric
150 pulses per revolution (AD150A) metric
100 pulses per revolution (AD100A) imperial

Resolution : AD375A - 1mm (375 pulses/rev)
AD150A - 2.5mm (150 pulses/rev)
AD100A - 0.01ft (100 pulses/rev)

Electrical

Operating Voltage: 9.6 to 16VDC operation ie. from SDI-12 + 12 volt supply
Output: 4-20mA current loop drive (9V to 30V DC) used as a 2-wire current loop transducer, RS232, SDI-12
Battery Backup : Internal microprocessor operation as well as data integrity is guaranteed by a factory fitted lithium battery for 3 years minimum.
Current Drain: 10F A
Accuracy: 0.01% F.S. BSL.

LCD Display

Screen: 2 lines x 16 characters LCD
Backlight: Powered via SDI-12 port (9.6 to 16 VDC) range, resolution, time, date and current water level.
Display:
Parameters: User selectable via push buttons on the shaft encoder housing

Accessories

Floats and Counterweights
Float Pulley Wheels
Beaded or Borehole Float Line
Wire Gate Mounting Kits
Chain and Sprocket
Gear Drives
Mechanical Counter Kit

Packing Details

Dimensions: 270 x 170 x 200 mm
Weight: 2.0 kg

Note: Specifications are subject to change at anytime without notice

HYDROLOGICAL SERVICES PTY.LTD.

48-50 SCRIVENER STREET, WARWICK FARM, 2170 SYDNEY, AUSTRALIA.
A.B.N. 37 000 732 954
PO Box 332 Liverpool BC 1871
PH: 02 9601 2022 (INT.612 9601 2022)
FAX: 02 9602 6971 (INT.612 9602 6971)
Email: sales@hydrologicalservices.com
Website: www.hydrologicalservices.com

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