

SUTRON Stage Discharge Recorder, with Analog input and 4-20mA outputs and SD Card Slot,with Shaft Encoder

Product #: **SDR-0001-4SD**

USD Price: Contact Hach

SDR is a Logging Shaft Encoder used in surface water & groundwater applications. Front panel programmable, it holds over one year of data, & operates for over one year on alkaline batteries. SDR supports dual sensors to measure a second stage using an analog or SDI-12 sensor. It supports rating tables and incorporates standard flume and weir equations.

Dual sensor
Setup SDR to measure a second stage using an analog* or SDI-12 sensor.

Rating table
Compute discharge using a rating table with up to 50 points.

Averaging
Stage can be computed by averaging multiple samples over a user-set period.

Specifications

Analog Inputs:	Yes
Analog Output:	Yes
Analog Outputs:	Stage / Water Level or Discharge
Analogue Ouput Signal:	4 - 20 mA
Calculations:	Discharge using Parshall Flume, Broad Crested Weir equations, Dual Sensor, Rating Table or general purpose equation with user entered constants. Calculation of daily volume and daily average stage.
Control and Display:	Display Type: 2 x 20 LCD with backlight Keypad Type: 6 button
Data Storage:	# 300,000 readings
Dimensions:	4.5 x 4 x 7 in (11.5 x 10.2 x 17.8 cm)
Interface:	SDI-12, RS-232
Material Enclosures:	NEMA 3, IP63 resists dripping water & spray
Measuring Interval:	15-minute (default) 1, 5, and 10-min user selectable
Measuring Range:	+/- 24.38 m of calibration point
Mounting Configurations:	Supported Wheels:

	1 ft, 0.375, 0.5 m, and custom
Operating Temperature Range:	-40 - +140 °F (-40 - +60 °C)
Parameters Measured:	Stage / Water Level, Internal Temperature, Battery
Power Consumption:	#3.5 mA @12 VDC
Power Supply:	5.5 - 16 VDC
Programming:	Via front panel or SDR communicator program
Protocol:	MODBUS Slave. SCP, SDI-12
Range:	+/- 80 ft (24.38 m) of calibration point
Resolution:	Analog input measures 0 - 5 V sensor, 4 - 20 mA sensor or resistive bridge sensor
SD Card:	Yes
Shaft Encoder:	Yes
Shaft Length:	5/16" Diameter

Required Accessories

- SUTRON Beaded Chain with 12.5 cm centers for use with beaded cable wheels (specify length) (Item 5100-0581)
- SUTRON Beaded Chain with 12.5 cm centers for use with beaded cable wheels, 10 m length (Item 5100-0581-10)