SLV-SDI Engineering Selection Brief

Use this brief to define an atmospheric single-probe hydrostatic installation. It is a configuration review document, not an issued serial-specific datasheet, dimensional drawing or approval.

Selection item	Request / option	Release check
Span and channels	Request 3.5–200 m head plus temperature	Confirm pressure reference, accuracy basis, channel order and units.
Protocol	SDI-12 or RS485 Modbus as separate configurations	Require supported commands / registers, address, baud/parity and logger compatibility.
Energy	Request sleep/active current, warm-up and measurement duration	Use actual supply voltage and complete measurement cycle; no battery-life guarantee.
Installation	Casing ID, datum, deployment, surface route and service loop	Liquid-head span does not size the cable or qualify maximum submergence.
Data quality	Manual reference readings, timestamp and acceptance plan	SGMA or other monitoring obligations belong to the site program, not a product badge.

Installation decisions

- Keep the atmospheric vent dry; a low-power logger does not correct a blocked reference tube.

- Long SDI-12 cables require topology, capacitance, voltage-drop and logger testing; the standard allows longer runs with fewer sensors. Include the full cycle in energy budgets.

- Request a logger integration test and a recorded reference water-level check before network deployment.

Prepare the complete engineering RFQ

Record these inputs with the online configuration code. Liquid head is measured above the sensor diaphragm; deployment depth and cable routing are independent.

Input	Project value / acceptance record
Liquid composition, SG, concentration and temperature	_____
Maximum liquid head and minimum operating level	_____
Sensor installation depth, routing and service loop	_____
Clear casing ID / drawing datum / mounting	_____
Cable length, jacket and rated support	_____
Signal, supply, loop load and PLC / logger input	_____
Surge / hazardous-area / ingress evidence required	_____
Quantity, country, postal code and required documents	_____

Request the exact configured materials, dimensions in mm/inches, STEP availability, pinout and calibration/approval records before order release. Reference photographs do not establish a qualified SLV SKU or guaranteed material/performance.

Submit: https://submersiblelevel.com/request-quote

Open resources: https://submersiblelevel.com/datasheets-cad-wiring-library