Accurate Level & Flow
for open Channels

SF-500S
ULTRASONIC OPEN CHANNEL FLOW METER
**Ultrasonic Open Channel Flow Meter**

**SF-500S with LXD-04**

SF-500S is an ultrasonic non-contacting flow meter for open channels. The measured level value is converted into the rate of flow in specific weirs or flumes; therefore, the accurate level value is very important. LXD-04 sensor is an exclusive sensor for open channel flow, providing accurate level reading. SF-500S provides a variety of weirs and flumes formulations so it can be used in different applications. The measured flow information is saved in the memory of SF-500S and it can be downloaded by USB or transmitted by the digital communication such as RS232, RS485 or Modbus.

**Features**
- Exclusive Sensor for Open Channel Flow
- User Friendly Menu
- Error Instruction Guide by QR Code scanning
- RS232, RS485, Modbus
- Logging Data Downloading by USB
- Firmware Upgrading by USB
- Data Logging for Long Period
- Various Flumes and Weirs Formulations
  1. Parshall Flumes
  2. Suppressed Rectangular Weirs
  3. Overflow Rectangular Weirs
  4. V-Notch (Triangular) Weirs
  5. Angled Weirs
  6. Oblong Lago Flumes
  7. Patent Sawtooth Flumes
  8. H Weirs
  9. Frapetoddi Flumes

**Technical Specification**

**SF-500S (Controller)**

- Measurement Method: Ultrasonic non-contacting
- Measurement Range: 0.00m³/h - 200,000m³/h
- Accuracy: 0.2% of F.S
- Resolution: 1mm
- Damping Rate: 0.1m/min - 100m/min
- Data Logging Period: Maximum 672 days (1 hour interval)
- Output:
  - Analog: 0-20mA into max 2500Ω
  - Relay: 3 Relays
  - Digital: RS232, RS485, Modbus
- Display: Illuminated Graphic LCD
- IP Rating: IP65
- Temperature: -20°C - 60°C
- Material: Polyurethane
- Dimension: 14(W)x250(H)x91(D) mm
- Weight: ca. 7kg
- Power Supply: 100~230V AC±10%, 50/60Hz, 35VA(17W)
  - Fuse: 250V T1.0A
  - DC 9-30V, Max 2W

**LXD-04 (Sensor)**

- Range: 0.3-4m (0.98-13ft)
- Beam Angle: 8° - 3.6°
- Process Connection: 1" PF
- Weight: ca. 1.0kg
- Material: PVDF
- Temperature: -30°C - 70°C (-22°F - 158°F)
- Temperature Compensation: Internal temperature sensor
- External temperature sensor is also available
- IP Rating: IP68
- Cable: 2 Core Shield (AWG18)
- Cable Extension: up to 450m (1,475ft)
- Certificate: CE, FCC
- Warranty: 3 years

*The technical specification is subject to change without prior notice.*

**Designed, Developed, Manufactured by**

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