

Cost effective | Reliable | Efficient

Accurate Level & Flow

for open Channels



SF-500S

ULTRASONIC OPEN CHANNEL FLOW METER

SONDAR™

SONDAR™

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, it provides 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 time period
- Various Flumes and Weirs Formulations
 - 1) Parshall Flumes
 - 2) Suppressed Rectangular Weirs
 - 3) Contracted Rectangular Weirs
 - 4) V-Notch [Triangular] Weirs
 - 5) Cipolletti Weirs
 - 6) Leopold Lagco Flumes
 - 7) Palmer Bowllus Flumes
 - 8) H Flumes
 - 9) Trapezoidal Flumes

Technical Specification

SF-500S (Controller)

Measurement Method	Ultrasonic non-contacting
Measurement Range	0.00m³/h~200,000.00m³/h
Accuracy	0.2% of F.S
Resolution	1mm
Damping Rate	0.1m/min-100m/min
Data Logging Period	Maximum 672 days (1hour interval)
Output	Analog 2ea, 4~20mA into max 750Ω Relay 3 Relays Digital RS232, RS485, Modbus
Display	Illuminated Graphic LCD
IP Rating	IP65
Temperature	-20℃~60℃
Material	Polycarbonate
Dimension	166(W)×250(H)×95(D) mm
Weight	ca. 2kg
Power Supply	100~230V AC±15%, 50/60Hz, 35VA(17W) Fuse: 250V T1.0A DC 9~30V, Max 8W

LXD-04 (Sensor)

Range	0.3~4m (0.98~13ft)
Beam Angle	8°at -3dB
Process Connection	1" PF
Weight	ca. 1.0kg
Material	PVDF
Temperature	-30℃~70℃ (-22°F~158°F)
Temperature Compensation	Built-in temperature sensor External temperature is also available
IP Rating	IP68
Cable	2 Core Shield (AWG18)
Cable Extension	up to 450 m (1,470ft)
Certificate	CE, UL, FCC
Warranty	3 years

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

Designed, Developed, Manufactured by

IS Technologies Co.,Ltd.

21, Venture-ro 100beon-gil, Yeonsu-gu,
Incheon City, 406-840, Republic of Korea
Tel. +82 32 850 2624
Fax. +82 32 850 2612
Email. sales@sondar.com
www.sondar.com

Represented by