

The Sondar SLM1000 Series is composed of a SLM1000 controller and a XDS800, XDS1200 or XDS1500 sensor. The Sondar SLM1000 Series is a highly versatile remote type ultrasonic level measurement system, which provides non-contact level measurement for a wide variety of applications. An on-board communications port automatically recognizes RS232 or RS485 communication port.



Features

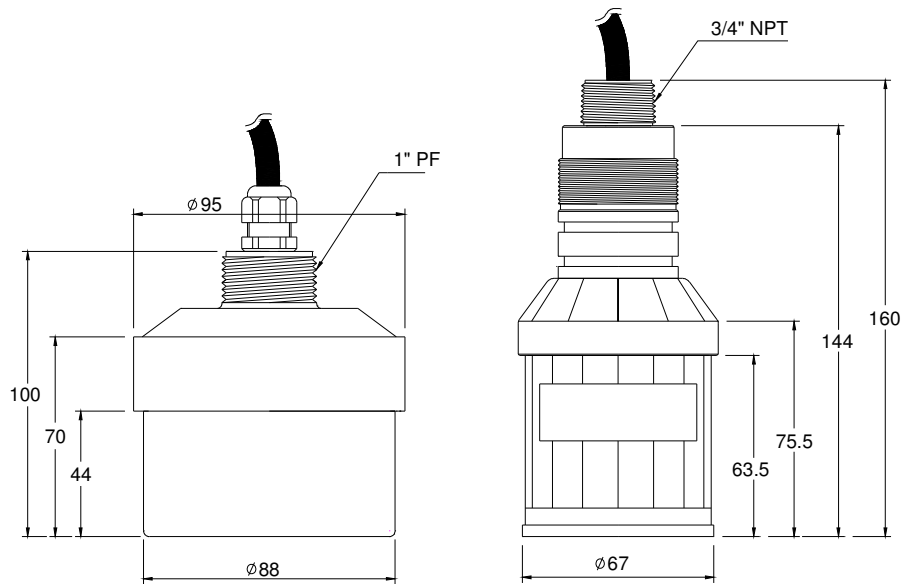
- Simple calibration
- Single point, long range measurement
- RS232 or RS485 digital output (option)
- Various useful functions for accurate and stable measurement
- 5 relays help process control with other instruments

Technical Specifications

<u>Physical</u>		<u>Performance</u>		
Dimension	Overall	240(W)x185(H)x107(D) mm	Accuracy	0.25 %
	Sensor	67(D)x160(H) mm ; 800S	Resolution	1 mm
		88(D)x100(H) mm ; 1200S	Measuring range	0.35 ~8.0 m ; 800S
Mounting	110(D)x120(H) mm : 1500S		0.5 ~12,0 m ; 1200S	
	3/4"NPT; 800S, 1"NPT; 1200S/1500S		0.5 ~ 15.0 m ; 1500S	
Weight	3.5Kg	Beam Angle	± 5 ° (-3 dB)	
Sensor Material	PP; 800S/1500S, PVC;1200S	Damping Rate	0.1~10 m/min (100min)	
Case Material	Polycarbonate	Temp. Compensation	fully compensated	
<u>Environmental</u>		<u>Outputs</u>		
IP Rating	IP68; Sensor, IP65; Controller	Analog Output	4~20 mA (max 750Ω)	
Temperature	-20~85°C; Sensor	Display	2 line 40 characters LCD	
	-20~60°C; Controller	Com Port	RS232/RS485(Option)	
Pressure	Up to 2 Bar	Relay	5 SPDT Relay	
<u>Certification</u>		<u>Supply</u>		
CE		Power Supply	AC90~260V, 12V/24V DC	
		Power Consumption	10 W	

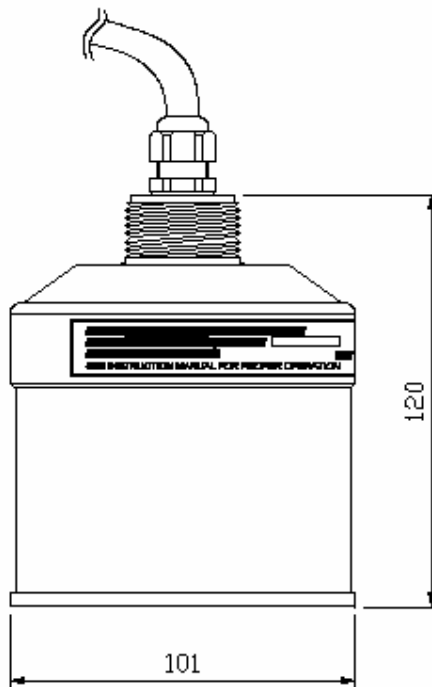
Dimensions

Sensor



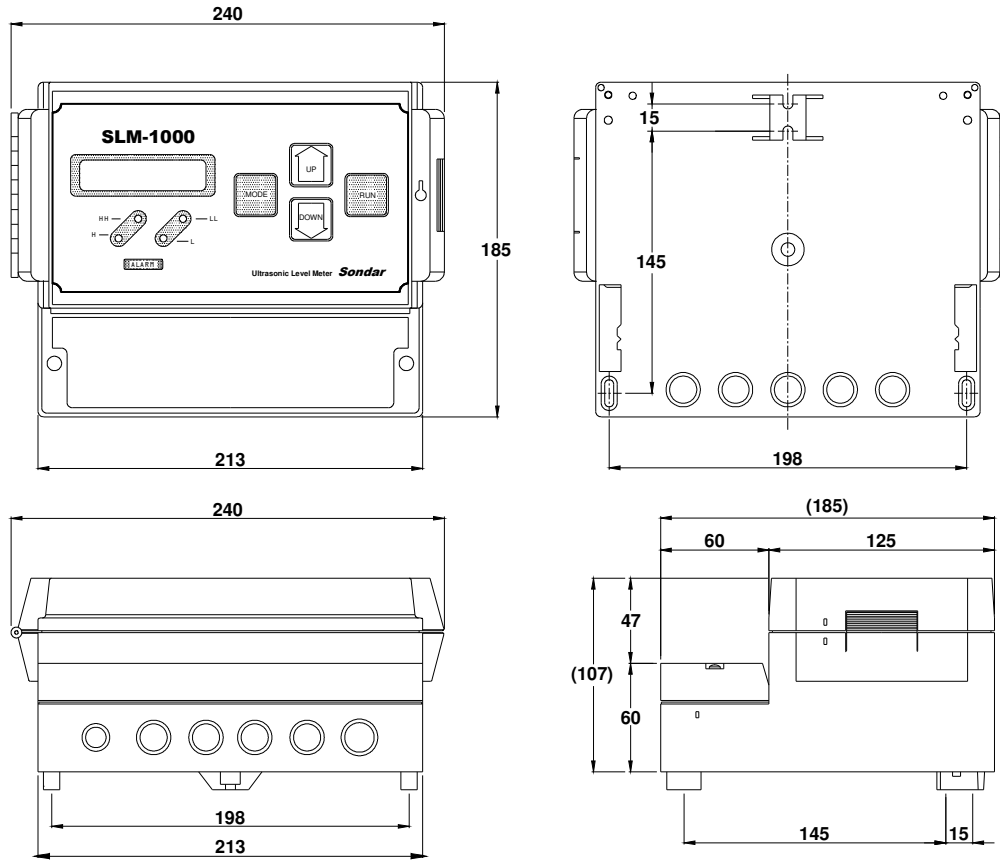
XDS - 1200

XDS - 800



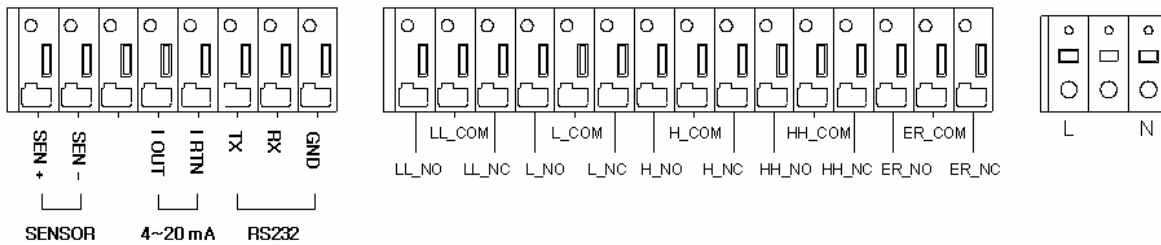
XDS - 1500

Controller



Terminal Connections

Input & Output Terminal



Function

Terminal	Function	Note
SEN+	Connect to positive wire(red) of ultrasonic sensor	
SEN-	Connect to shield wire(blue) of ultrasonic sensor	
RTH	This terminal is only used at factory	
IOUT	4~20mA current output	Maximum :900Ω
IRTN	Current output return	
TX	RS232C interface in use, connect to reception part RS485 interface in use, connect to Y	OPTION
RX	RS232C interface in use, connect to transmission part RS485 interface in use, connect to Z	OPTION
GND	GROUND, RX, TX	
LL_NO	Lower limit relay point, OFF with LL_COM together in operation	
LL_COM	Lower limit relay point, OFF with LL_NO together in operation	
LL_NC	Lower limit relay point, OFF with LL_COM together out of operation	
L_NO	Lower Alarm relay point, OFF with L_COM together in operation	
L_COM	Lower Alarm relay point, OFF with L_NO together in operation	
L_NC	Lower Alarm relay point, OFF with L_COM together out of operation	
H_NO	Upper Alarm relay point, OFF with H_COM together in operation	
H_COM	Upper Alarm relay point, OFF with H_NO together in operation	
H_NC	Upper Alarm relay point, OFF with H_COM together out of operation	
HH_NO	Upper limit relay point, OFF with HH_COM together in operation	
HH_COM	Upper limit relay point, OFF with HH_NO together in operation	
HH_NC	Upper limit relay point, OFF with HH_COM together out of operation	
ER_NO	Error relay point, OFF with ER_COM together in operation	
ER_COM	Error relay point, OFF with ER_NO together in operation	
ER_NC	Error relay point, OFF with ER_COM together out of operation	
L	Connect to line of AC power	
N	Connect to neutral of AC power	

Ordering Code

LR-

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Measuring Range

8m	1	\$ 1100
12m	2	1200
15m	3	1300

Cable Length

Standard (10m)	S10	N/C
Extension (Max. 200m)	***	\$10/meter

Power Supply

12V DC	A	N/C
24V DC	B	N/C
90~260V AC	F	N/C

Communication Port

Nothing	N	N/C
RS232	A	100
RS485	B	100

Sensor Material

PP (not available with 12m range)	P	N/C
STS (not available with 8m range)	S	450
PVC (not available with 8m or 15m range)	V	N/C

Ex) LR-2S10A-AV (12m Range, 10m Cable, 12V DC, RS232, PVC Sensor)

LR-3035F-NP (15m Range, 35m Cable, AC, No Communication Port, PP Sensor)