Ultrasonic Level Meter – *LEV100 SERIES*

CE KC

LEV100 ultrasonic level meter utilizes enhanced ultrasonic technology to measure liquid or solid level in various applications with superior accuracy and reliability. The instrument continuously provides the user with important information which includes numeric & graphic screens representing the distance to medium level, an echo profile image to ensure correct configuration during commissioning and saved data analysis for maximum 400days.

LEV100 series offer two types of controllers and various types of sensors to suit for most field requirements. Its isolated electric design enables fit-and-forget performance.

WESS measurement

Features

■ Continuous and real-time measurement

■ Single or Dual channel measurement and Differential level measurement

■ Max. 400 days data logging

■ Various types of sensors

■ ASF (Abnormal Signal Filter) function

■ Current isolation
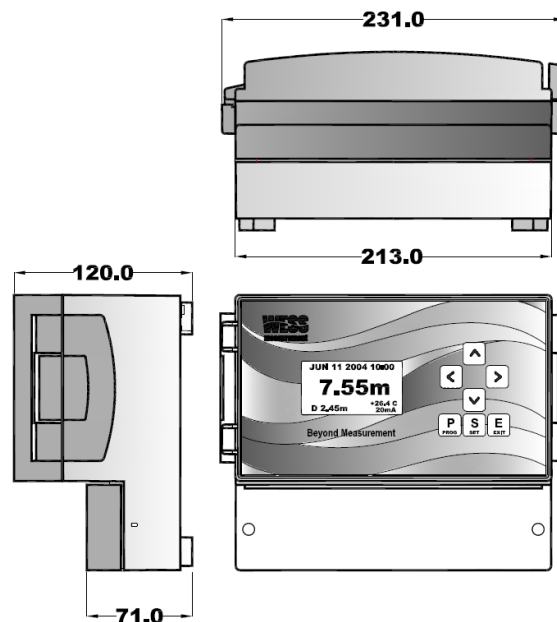
■ Built-in oscilloscope function

Applications

■ Water / Wastewater Treatment

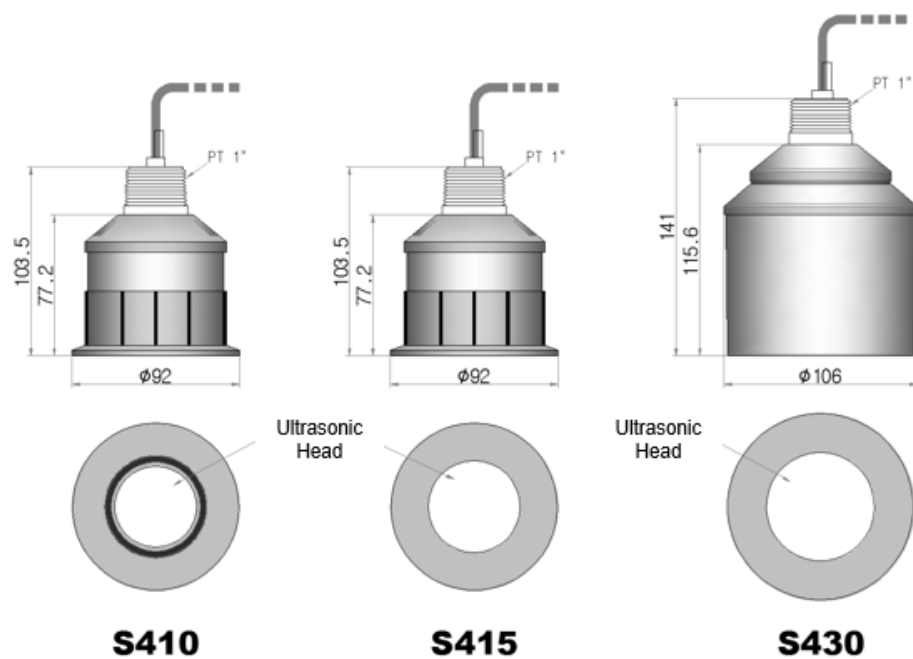■ Petrochemical

■ Steel mill

■ Food & Beverage

■ Power plant

Dimensions (mm)

Controller – *C4S/C4D*

Sensors – *S410(10m), S415(15m), S430(30m)*

Technical Data

Controller

We offer two different types of controllers, LEV100S and LEV100D. The LEV100D controller operates with two sensors measuring differential level as well as respective level measurements

Controller – *C4S (Single Channel)*

Measuring Principle	Ultrasonic transit time principle
Measuring Range	10m, 15m, 30m
Resolution	1mm
Accuracy	+/- 0.25% F.S.
Measuring Pulse	5~25 times/sec.
Screen	Numeric 1, Numeric 2, Echo profile, Data trend, Parameter
Display	Level, Distance, Temperature, mA, Time, State
Operational Temp.	-20 ~ 70°C
Power Supply	STD. : 100 ~ 240V AC, 50~60Hz, ≤6W
	OPT. : 10~14V DC, 22~26V DC
Outputs	Current : 1ea x 4~20mA
	Relay : 4 SPST (5A, 250VAC)
	Digital : RS232(STD.), RS485(OPT.)
Data Saving	Max. 400 days data logging and trend
Enclosure Material	Polycarbonate
Temp. Compensation	Automatic (Built-in)
Sensor Control	1 Point
Dimension	231(W) x 185(L) x 120(H)mm
IP Rating	IP65
Certificate	CE

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Technical Data

Controller – *C4D (Dual Channel)*

Measuring Principle	Ultrasonic transit time principle
Measuring Range	10m, 15m, 30m
Resolution	1mm
Accuracy	+/- 0.25% F.S.
Measuring Pulse	5~25 times/sec.
Screen	Numeric 1, Numeric 2, Echo profile, Data trend, Parameter
Display	Graphic LCD
	Level(Differential Level), Distance, Temperature, mA, Time, State
Operational Temp.	-20 ~ 70°C
Power Supply	STD. : 100 ~ 240V AC, 50~60Hz, ≤6W
	OPT. : 10~14V DC, 22~26V DC
Outputs	Current : 2ea x 4~20mA
	Relay : 1 SPST (5A, 250VAC)
	Digital : RS232(STD.), RS485(OPT.)
Data Saving	Max. 400 days data logging and trend
Enclosure Material	Polycarbonate
Temp. Compensation	Automatic (Built-in)
Sensor Control	2 Points
Dimension	231(W) x 185(L) x 120(H)mm
IP Rating	IP65
Certificate	CE

Technical Data

Sensor

We offer three different ranges of sensors, 10m, 15m and 30m.

S410

Measuring Range	0 ~ 10m (Incl. dead zone)
Beam Angle	5 degree
Frequency	50KHz
Operational Temp.	-40 ~ 90°C
Material	Body: Glass filled polyester
	Face: Glass reinforced epoxy
Mounting Thread	1" PF Thread
Mounting Type	Socket / Flange
Cable Length	10m (STD.)
Weight	1.0kg
IP Rating	IP68

S415

Measuring Range	0 ~ 15m (Incl. dead zone)
Beam Angle	5 degree
Frequency	41KHz
Operational Temp.	-40 ~ 90°C
Material	Body: Glass filled polyester
	Face: Glass reinforced epoxy
Mounting Thread	1" PF Thread
Mounting Type	Socket / Flange
Cable Length	10m (STD.)
Weight	1.0kg
IP Rating	IP68

S430

Measuring Range	0 ~ 30m (Incl. dead zone)
Beam Angle	5 degree
Frequency	30KHz
Operational Temp.	-40 ~ 90°C
Material	Body: Glass filled polyester
	Face: Glass reinforced epoxy
Mounting Thread	1" PF Thread
Mounting Type	Socket / Flange
Cable Length	10m (STD.)
Weight	2.0kg
IP Rating	IP68

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Ordering Code

LEV100 SERIES

LEV100 SERIES	CODE	DESCRIPTION
Controller	C4S	LEV100 Single Controller – AC 100~240V (STD.)
	C4D	LEV100 Dual Controller – AC 100~240V (STD.)
Sensor	S410	10m
	S415	15m
	S430	30m
Option	DC1	DC 12~16V
	DC2	DC 20~30V
	RS4	RS-485 (STD. RS-232)
	MOD	Modbus communication
	C_XXm	Total sensor cable length (Unit: m), (STD. 10m)
Note	Ex.) C4S-S410-C_15m Single controller, 10m sensor, Total sensor cable length 15m	

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