

Flat type sensor Electromagnetic Log

EML900 Series



Next Generation Type Electromagnetic Log EML900 Series

EML900 series is a next generation electromagnetic log successfully adapted with a new operation unit.

EML900 fully conforms following testing standard, and improves on safety, usability, and extensibility.

This electromagnetic log can be adapted from small vessels to large vessels.

IEC60945(2002)、IEC61162-1(2016)

IEC61023(2007)、IEC62288

New Operation Unit

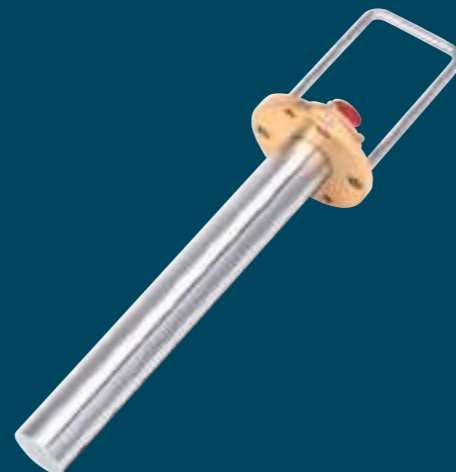
- High visibility and enhanced man-machine interface by 3.5 inch color display.
- Easy adjustment of indication speed.
- Miniaturization and weight saving unit whose equip position can be selected freely .



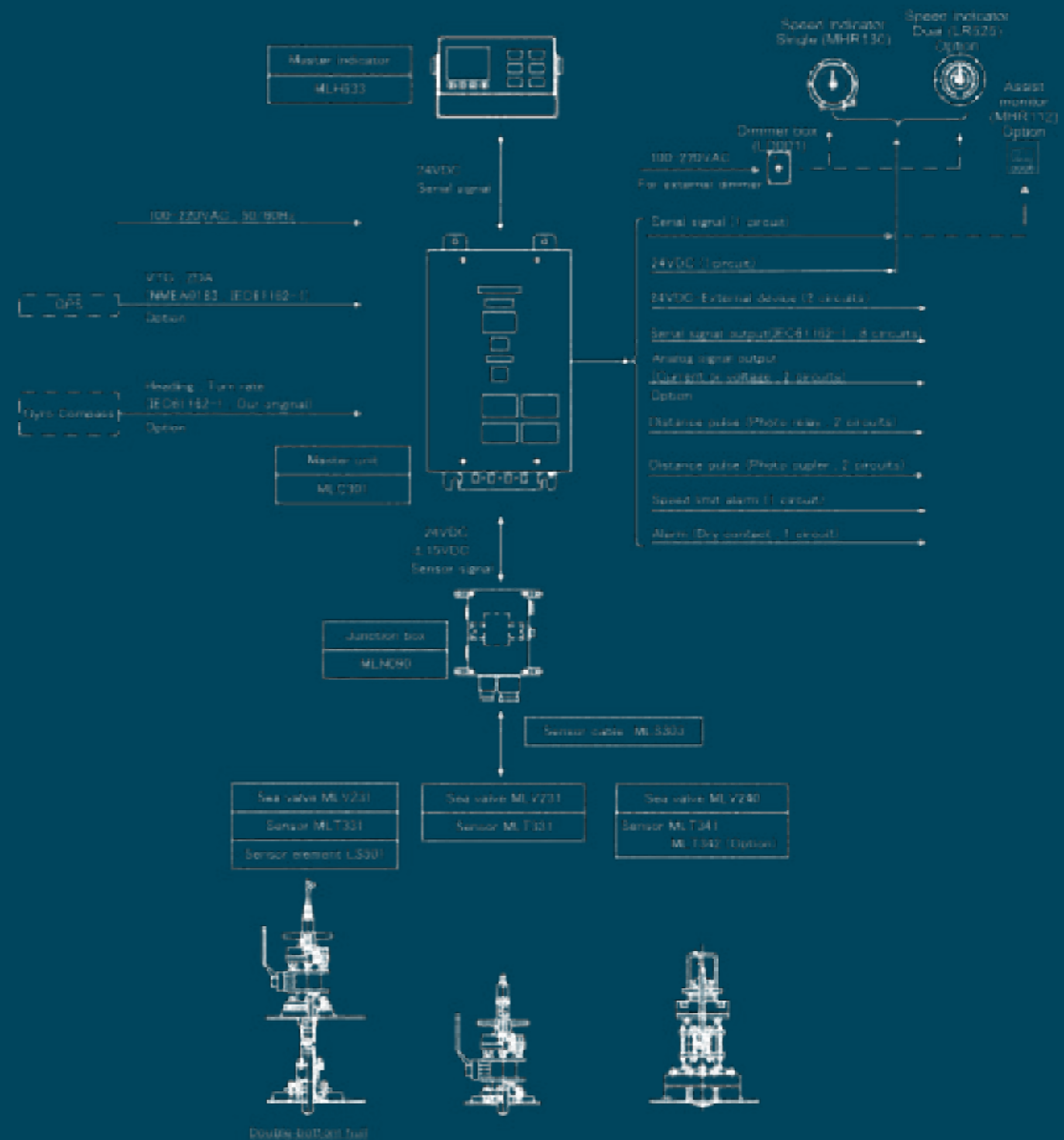
Master Indicator

Improvement of the sea valve and sensor

- Easy installation and pull-out of the sensor.
- Transverse speed can be measured if dual-axis sensor is selected.



System configuration

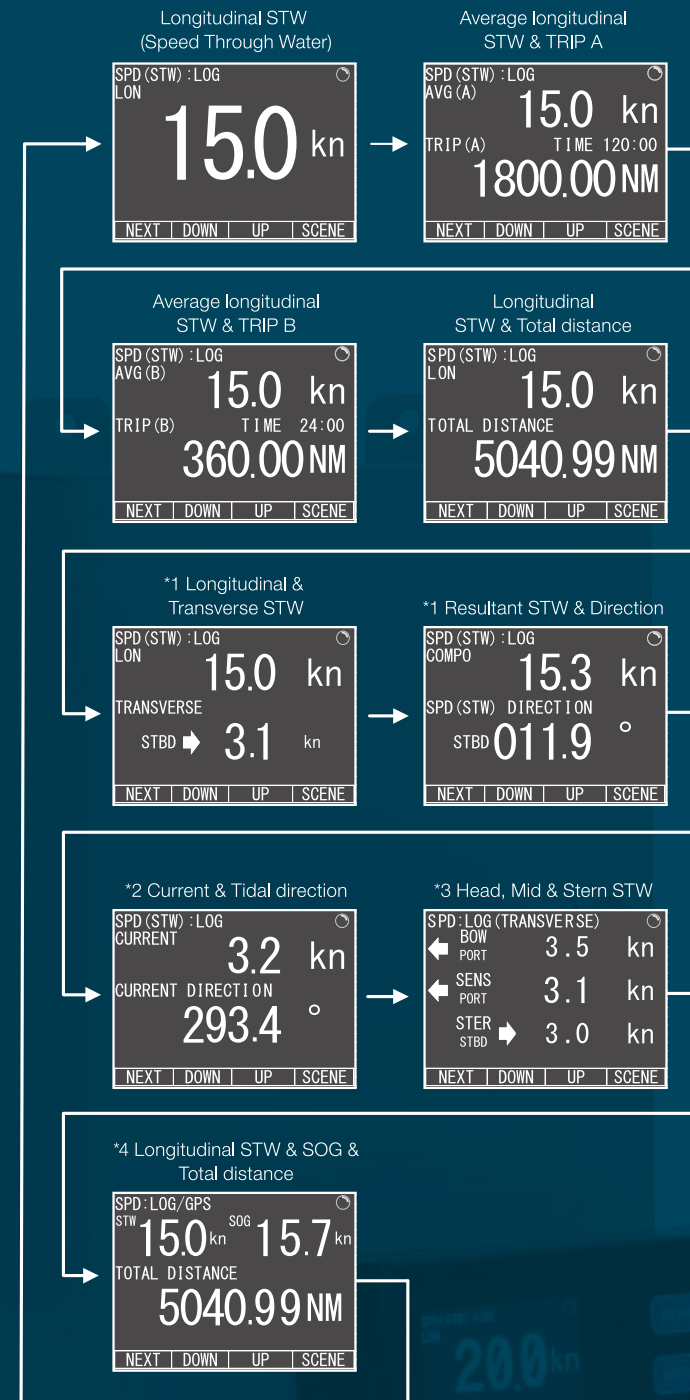


External interface

- GPS Interface: Back-up for Log sensor (Only indicates at Master Indicator)
 - GYRO Interface: For the calculation of berth speed,
- Note: All of above interface are optional

Screen scene

- LOG is selected as signal source



- *1 : In case of Dual-axis sensor is equipped
- *2 : In case of Dual-axis sensor is equipped, Gyro and GPS signal is connected.
- *3 : In case of Dual-axis sensor is equipped and Gyro is connected.
- *4 : In case of GPS signal is connected.

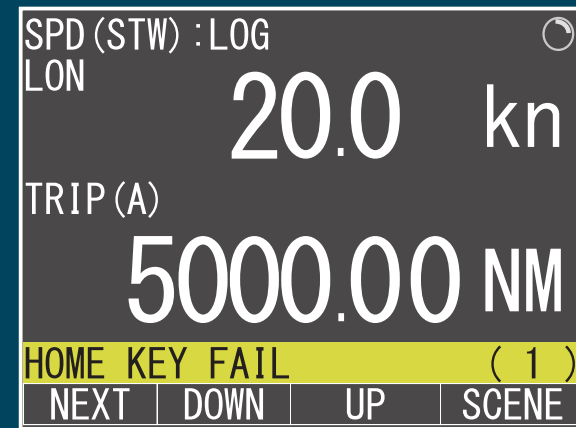
Many external outputs

- Signal output as below

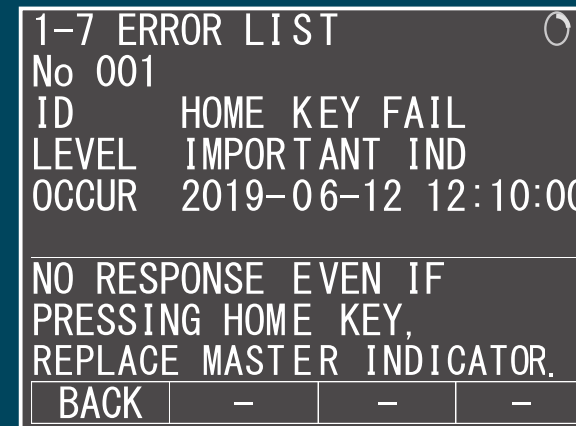
Output	Circuit	Format
Analog speed	2	Current / Voltage
Distance pulse	2	Photocoupler
	2	Photorelay
Serial	8	IEC61162-1/NMEA2.3,2.0 etc...
Speed limit	1	Contact (NC/NO)
Alarm	1	Contact (NC/NO)

Error history indication

- Detail of error and correspond can be confirmed on MENU screen.
- On error history, it can confirm normal error detail (not active)

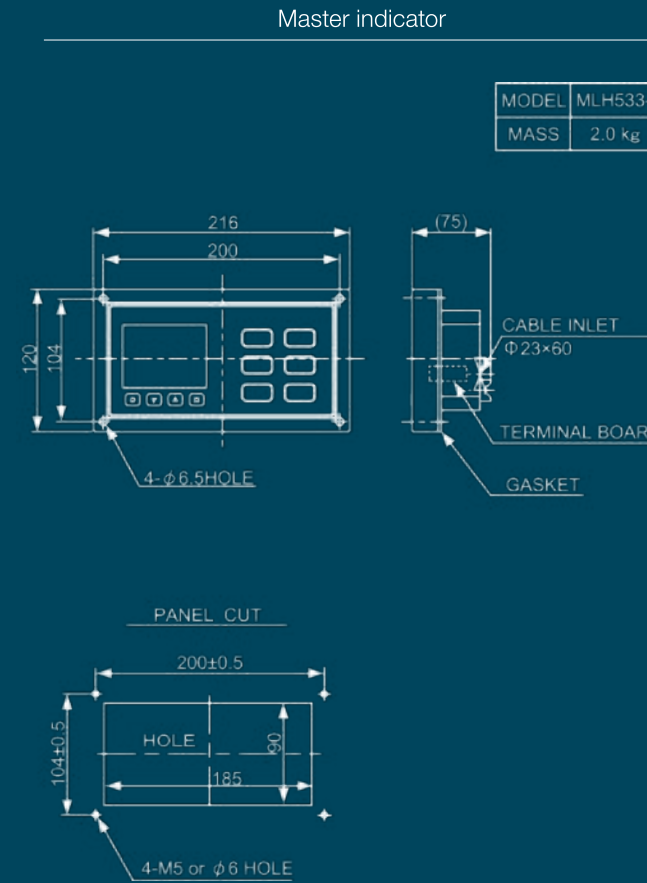


Error indication on HOME screen



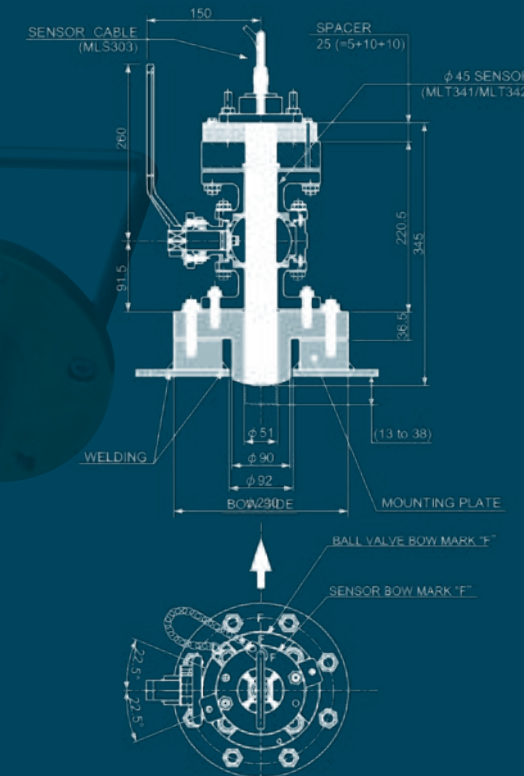
Error detail screen

Outline

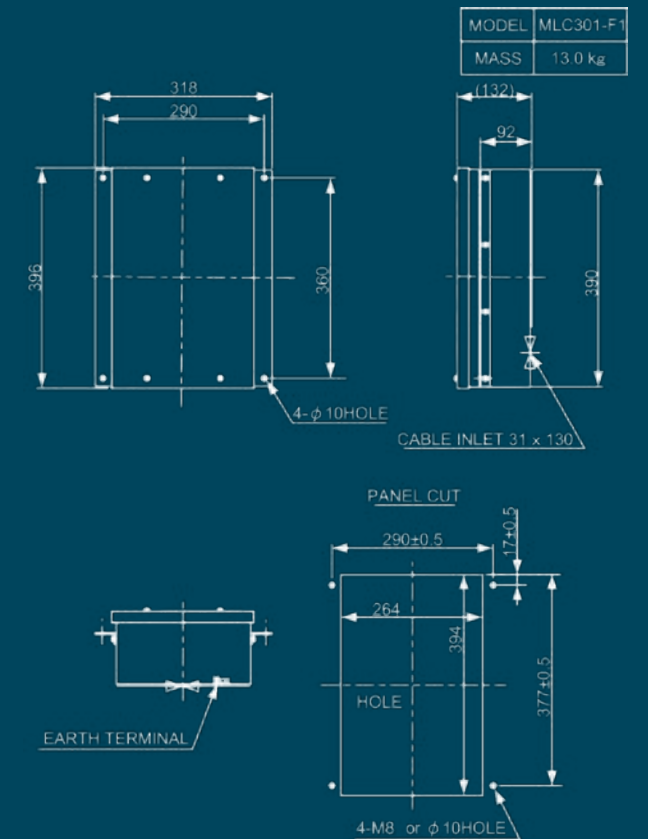


FB1/FB2
48φSensor and Seawater valve

SEA VALVE		Φ45 SENSOR	
MODEL	MLV240	MODEL	MLT341/MLT342
MASS	25.0kg	MASS	3.5kg



Master unit



HD1
35φSensor and Seawater valve

SEA VALVE		Φ35 SENSOR	
MODEL	MLV231	MODEL	MLT331
MASS	12.0kg	MASS	3.0kg



Power supply	Main power supply	100-220VAC, 50/60Hz
Power consumption	Main power supply	160VA(Maximum)
Measurement range	Longitudinal	-4kn-20kn
		-5kn-25kn
		-7kn-35kn
Transverse	-8kn-40kn (※1)	
	-10kn-50kn (※2)	
	-13kn-65kn (※1)(※2)	
Distance	※1: Cannot be selected for MHR130-SPD	
	※2: Independent engineering is required to sensor attached part.	
	※3: Dual-axis sensor	
Accuracy	Speed	10kn or low … ±0.2kn
		10kn or high … speed kn x ±2%
		For analog indication… kn x ±2.5% or ±0.25kn to the speed
	Distance	±0.2NM/h or ±2NM/h or high
*technical requirement for the performance standard determined by IMO IMO.A824(19) and MSC.96(72).		
Environmental	Temperature	-15°C - +55°C
		-20°C - +60°C
	Humidity	0-93% R.H (no condensation around)
	Vibration	2.0-13.2Hz: Full amplitude 2mm / 13.2-100Hz: 7m/s ²
	Protection	Junction box …IP56
		Sensor bottom …IPx8
		Other than above …IP22
	Power range	AC power…Voltage ±10%、Ferquency ±5%
Ship's battery …-25 - +30%		
Insulation resistance	At least 10MΩ using a 500V megger	
	1500VAC, 1min	
Withstanding voltage	IEC 60945	
Standard	MED	MEDB00005J2

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URL: <https://www.ydktechs.co.jp>



Caution: Please read the manual before using this product

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Subject to alteration due to technical developments without notice

Represented by: