

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

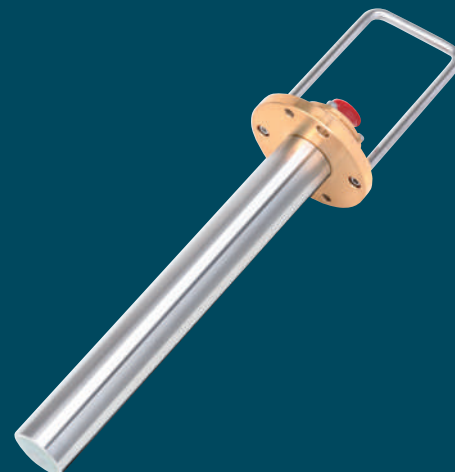
- High visibility and enhanced man-machine interface by 3.5 inch color display.
- Easy adjustment of indication speed.
- Miniaturization and weight saving unit whose equip position can be selected freely .



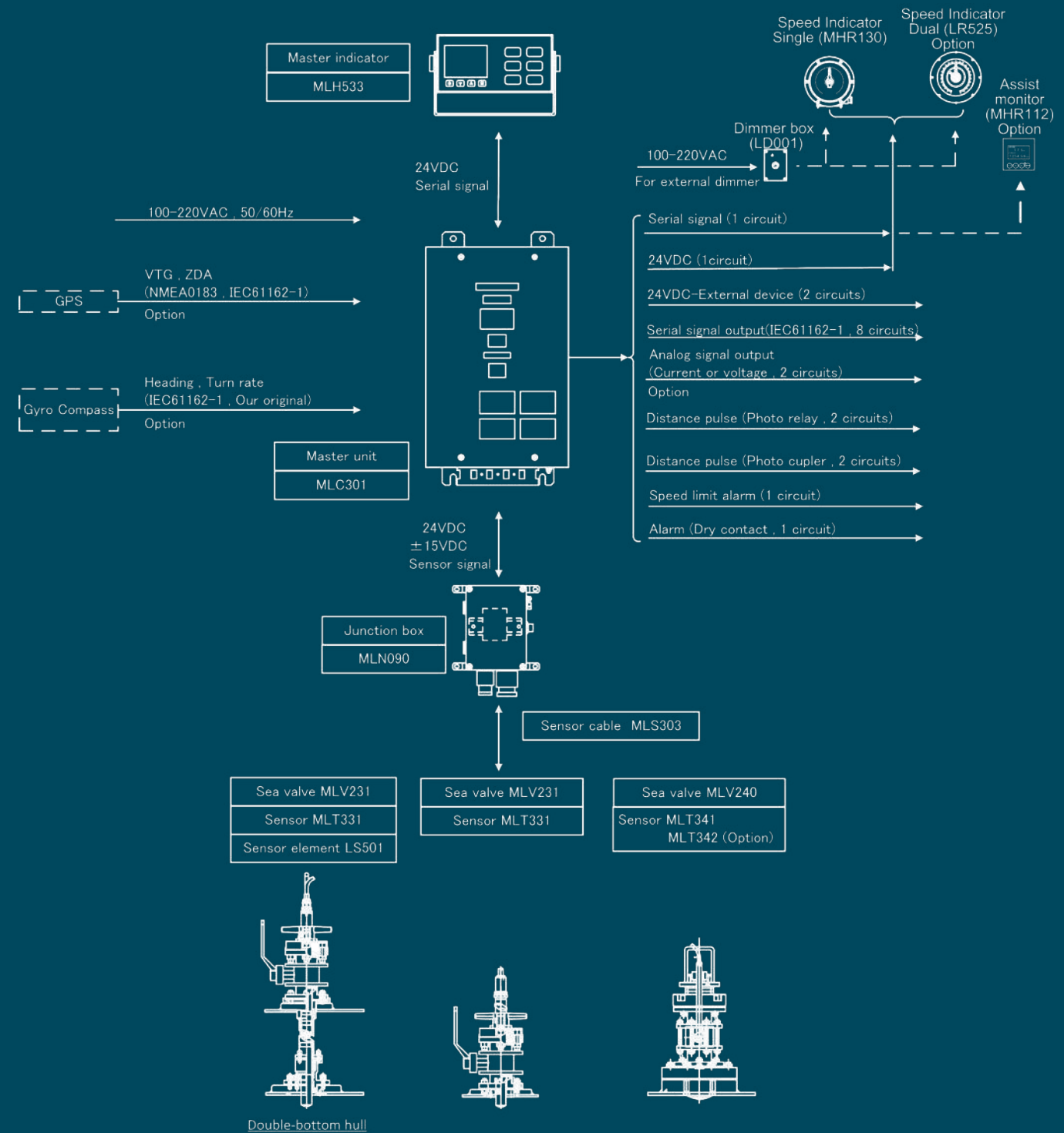
Master Indicator

## 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



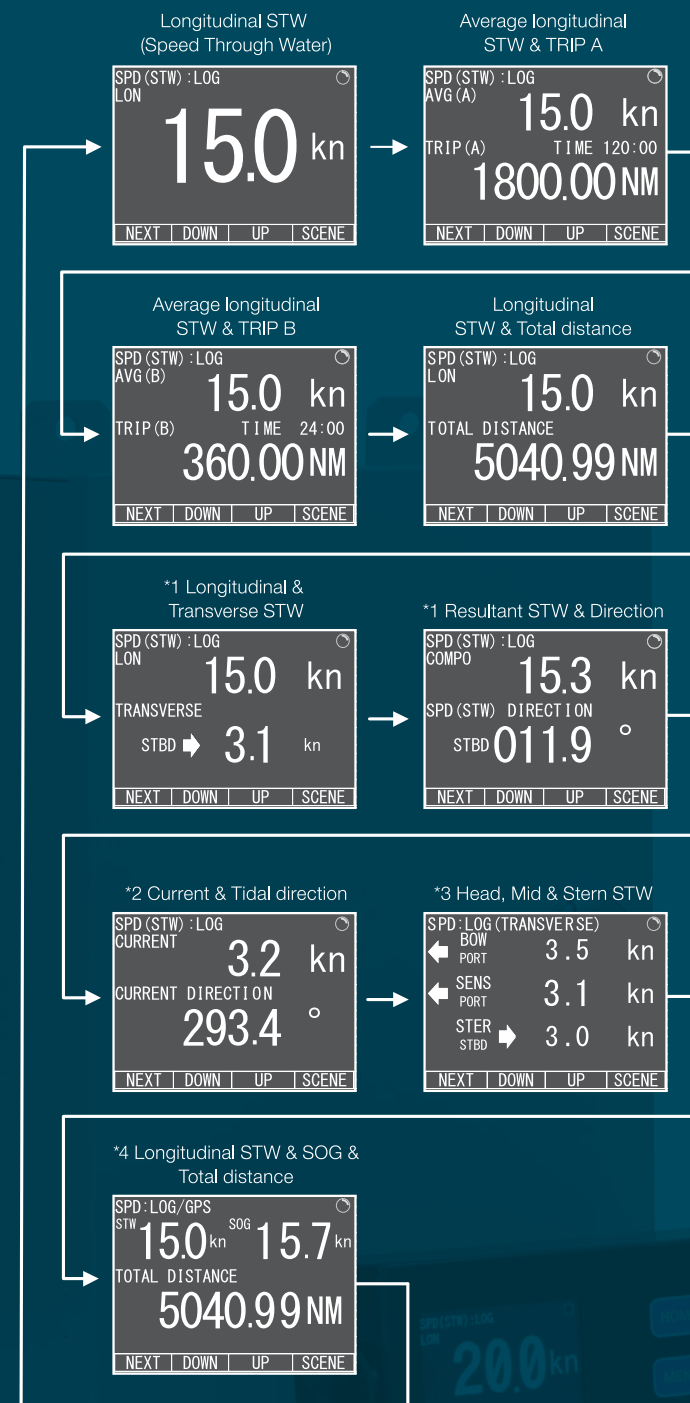


## External interface

- 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.

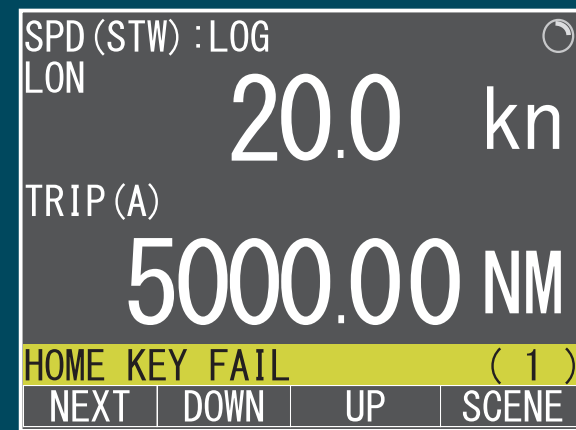
## Many external outputs

- Signal output as below

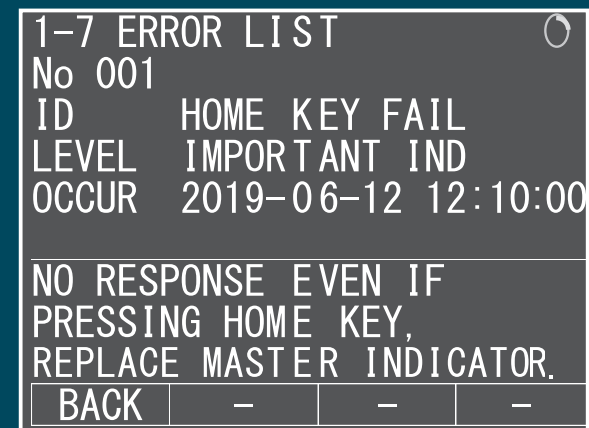
Output	Circuit	Format
Analog speed	2	Current / Voltage
Distance pulse	2	Photocoupler
	2	Photorelay
Serial	8	IEC61162-1/NMEA2.3,2.0 etc...
Speed limit	1	Contact (NC/NO)
Alarm	1	Contact (NC/NO)

## 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)

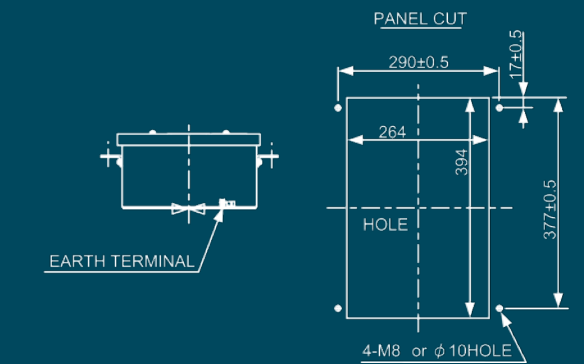
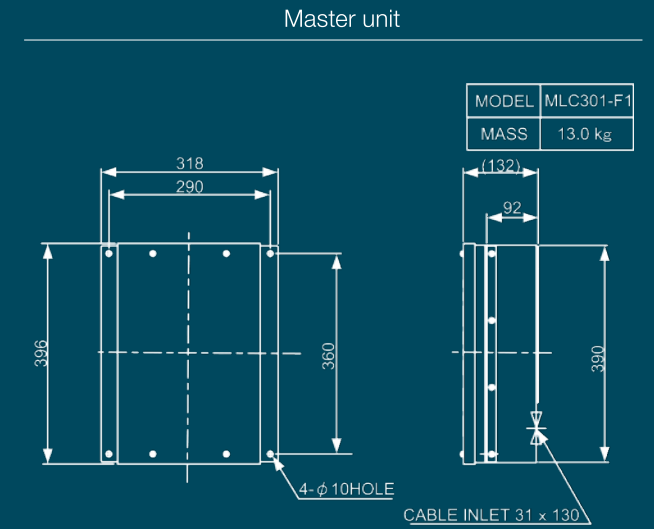
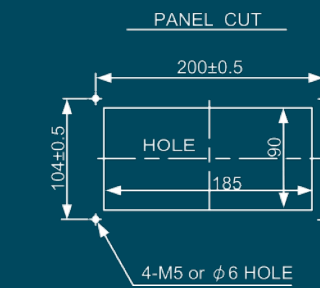
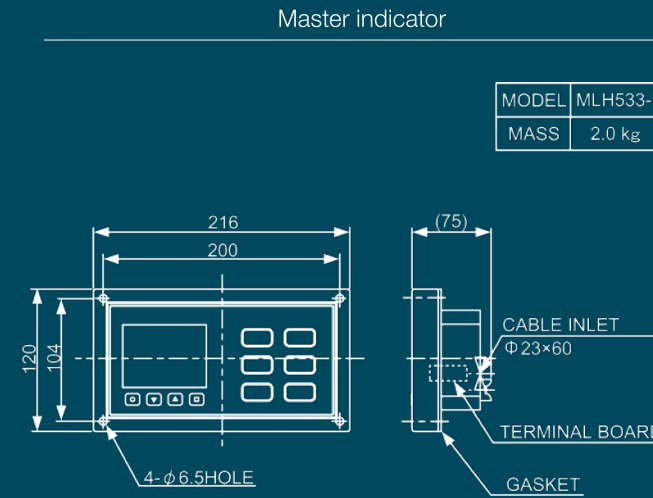


Error indication on HOME screen



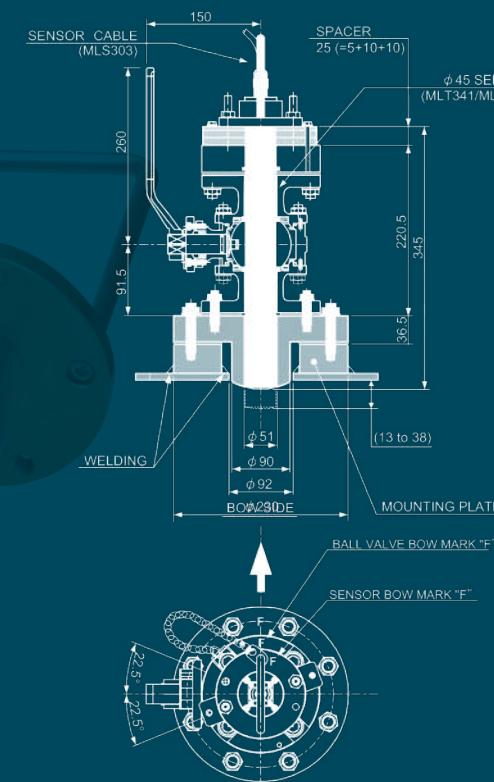
Error detail screen

## Outline



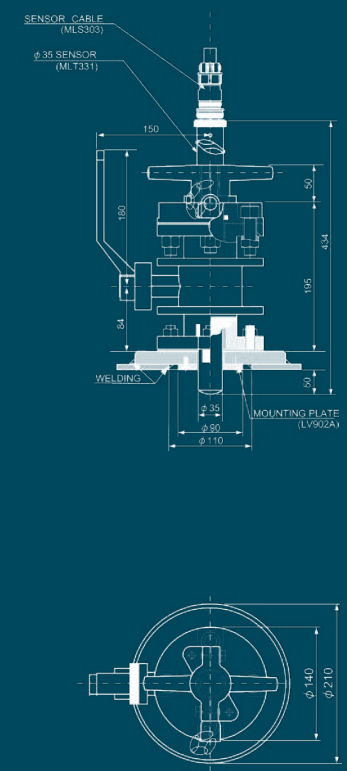
### FB1/FB2 48φSensor and Seawater valve

SEA VALVE		φ45 SENSOR	
MODEL	MLV240	MODEL	MLT341/MLT342
MASS	25.0kg	MASS	3.5kg



### 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	
Measurement range	Longitudinal	-8kn-40kn (※1)	
		-10kn-50kn (※2)	
		-13kn-65kn (※1)(※2)	
Measurement range	Transverse	-6.5kn~6.5kn (※3)	
		※1: Cannot be selected for MHR130-SPD	
		※2: Independent engineering is required to sensor attached part.	
Measurement range	Distance	0NM-999999.99NM	
		Distance	0NM-999999.99NM
		Distance	0NM-999999.99NM
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 <sup>2</sup>	
	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	

# YDK Technologies Co., Ltd.

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



**Caution:** Please read the manual before using this product

Marine Equipment Business Division  
 Address: Minami Shinjuku Hoshino Bldg.  
 5-23-13 Sendagaya, Shibuya-ku, Tokyo, 151-0051 JAPAN

International Sales Dept. Phone : (81) 3-3225-5383 FAX : (81) 3-3225-5316  
 Service Dept. Phone : (81) 3-3225-5392 FAX : (81) 3-3225-5316  
 Domestic Sales Dept. Phone : (81) 3-3225-5382 FAX : (81) 3-3225-5316

Osaka Branch Phone : (81) 6-4706-8027 FAX : (81) 6-4706-8028  
 Imabari Branch Phone : (81) 898-22-4559 FAX : (81) 898-33-2005  
 Nagasaki Branch Phone : (81) 92-272-0954 FAX : (81) 92-272-0955

Represented by: