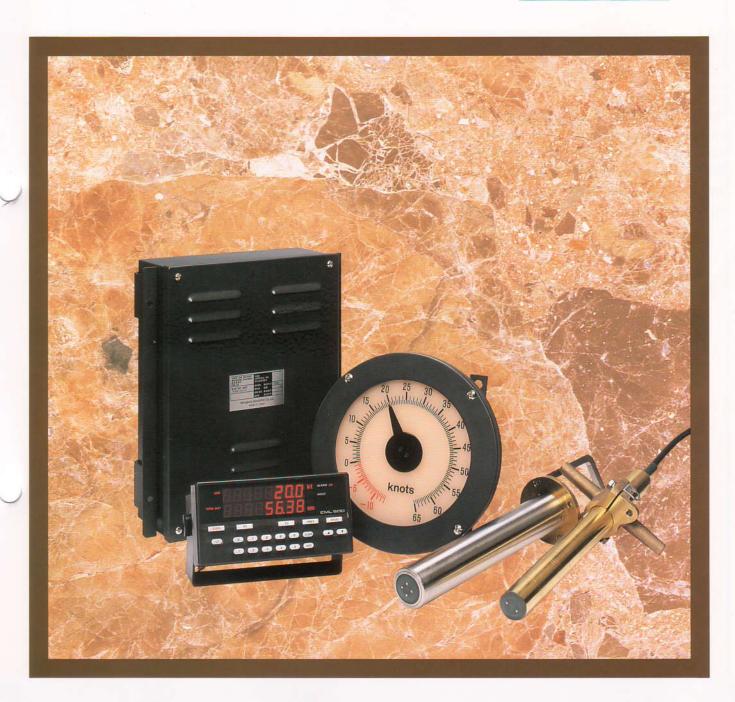


ELECTROMAGNETIC LOG

EML500 Series









Yokogawa Denshikiki Co., Ltd.

EML500 series, electromagnetic log With

The EML500 series of electromagnetic logs is the most recent release from Yokogawa Denshikiki Co., Ltd., adding to the more than 8,000 widely-acclaimed electromagnetic logs manufactured by the company since 1962. The EML500 series, both user-friendly and packed with the latest technology, is ideal for a wide range of vessels, from large ships through to small vessels, and high-speed ships.

Dual-axis sensor

A dual-axis sensor (option) measures not only the longitudinal speed, but also the transverse speed.









dual-axis flash-mountable sensor

Flash-mountable sensor

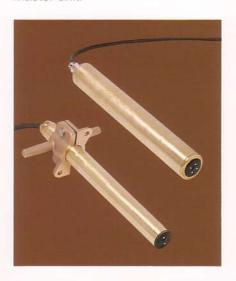
The sensor, just 48 or 70 mm in diameter, can be flash-mounted below the bottom plate of the vessel, thus making the EML500 series suitable even for high-speed vessels.





Preamplifier built into the log sensor

The preamplifier built into the sensor outputs the current signal and enables less noisy speed signals to be transmitted over long distances, thus eliminating restrictions on the distance between the sensor and the master unit.



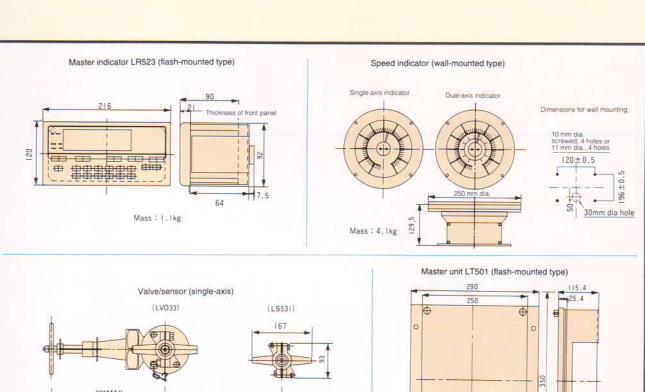
Back up by GPS

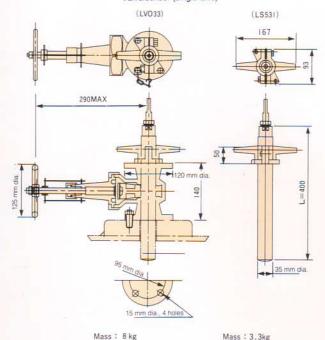
The EML500 can receive for back up signals (NMEA-0183) from external speed sensors such as the global positioning system (GPS).

Versatile external outputs

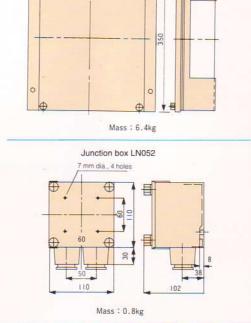
The following outputs are available as standard specifications:

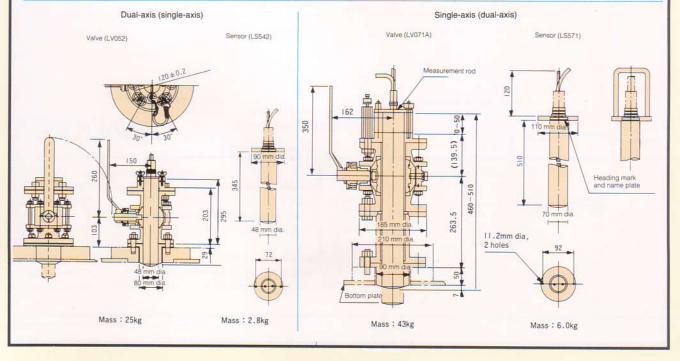
Pulse output	200 P/nm	10 circuits
A 1		4 circuits
Analog output	0 to 5 V	2 circuits
Digital output	NMEA-0183	2 circuits
Alarm output	Contact	2 circuits

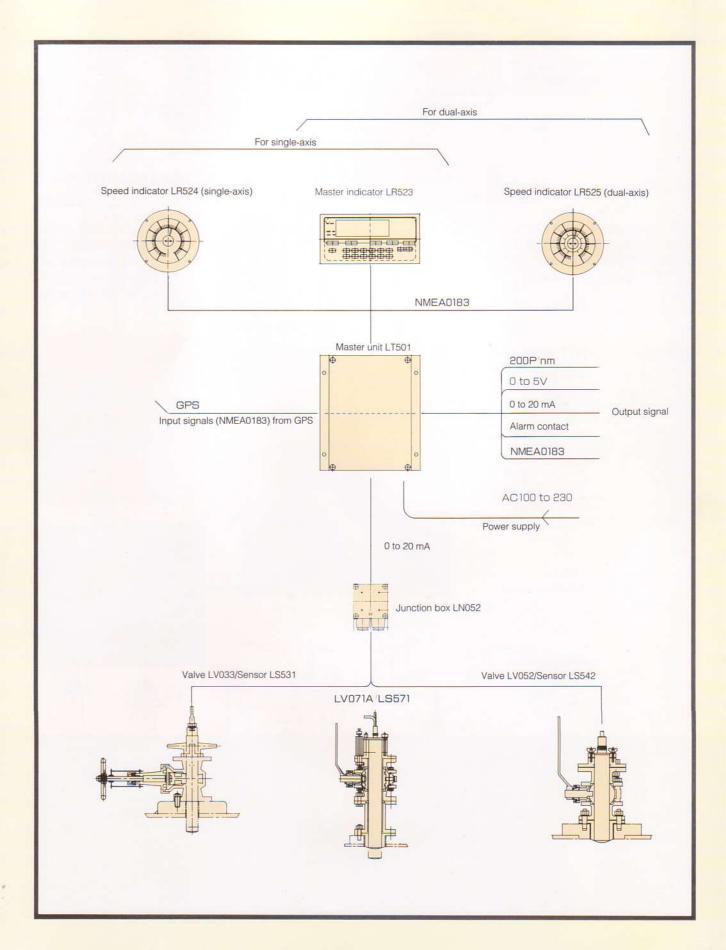












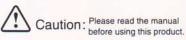
Specifications

Measurement range	Speed	-4 to 20 Kt -5 to 25 Kt -7 to 35 Kt -8 to 40 Kt -10 to 50 Kt -13 to 65 Kt		
	Distance	0 to 9999.99 nm		
	Direction	0 to 359° (for dual-axis)		
Accuracy	Speed	±0.15 Kt (for standard input signal) ±0.25 Kt (-10 to 50 Kt, -13 to 65 Kt)		
	Distance	The larger of ±0.05 nm/h or ±1%		
	Direction	±2.5° (for dual-axis)		
Response	Variable between 10 and 180 sec for 0 to FS input (0 to 90% response)			
Power supply	AC100/220V 50/60Hz			
Power consumption	Approx. 80 VA			
Input signal	NMEA-0183 (for back up signals from external speed sensors such as GPS) 1ch			
Output signal	Speed	Voltage: 0 to 5 V DC or 1 to 5 V DC Current: 0 to 20 mA or 4 to 20 mA		
	Pulse	200P/nm photo-coupler output, 5.5 V, 5 mA 200P/nm contact output, 30 V, 1 A, 100 ms ON width 200P/nm contact output, 30 V, 1 A, 100 ms ON width		
	Speed alarm	Contact output NC or NO, 30 V DC, 1 A 2ch		
	System alarm	Contact output NC or NO, 30 V DC, 1 A 2ch		
	Digital signal	NMEA-0183 (longitudinal speed and transverse speed)		
Environment	Ambient temperature			
	Humidity	10 to 95% RH		
	Power variation	Voltage: ±10% Frequency: ±6%		
	Vibration	5 to 12.5 Hz ±1.6 mm 12.5 to 25 Hz ±0.38 mm 25 to 50 Hz ±0.1 mm		
	Withstanding water-pressure	0.5MPa (at bottom valve and sensor)		
Standard	JG approve	ed number: 3795 DOT and NV applications in progr	ess.	



Yokogawa Denshikiki Co., Ltd.

URL: http://www.yokogawa.co.jp/YDK/



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