



## Ship's patent log

*Instruction*

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## Installation

The accuracy of registration depends on several circumstances, but probably the most common cause of error is either a damaged rotator or the rotator being streamed in the slip stream of propellers. This should be born in mind when mounting the register so that:-

1. The rotator, as far as possible is clear of the wake of the ship. The use of a short bracket is often advisable when mounting the register aft. Port and starboard mountings should be provided for the register.
2. The Governor wheel is clear of the taffrail and free to revolve when the helm is hard over.

Before streaming the log, the hands of the register should be set to agree. It is preferable to set them in the direction opposite to that in which they normally move - this ensures a dead start from zero

## Service Instruction

### Gimbal and socket

have to be oiled periodically with solidified oil

### Reduction gear

The reduction gear should be cleaned, re-oiled and greased with solidified oil at long intervals

## Specification:

- 1 Register with 2 shoes
- 1 Rotator connected
- 1 Governor connected
- 1 Log line
- 1 Wooden storage box

## Description of the Ship's patent log

### 1.) The Register

The drawing No 1 shows the main components of the register of which the reduction gear and the gimbals require periodic attention. Except at long intervals the register requires no lubrication or attention.

The register needs the standard rotator.



### 2.) The Rotator

The rotator is of standard design, and made for 900 revolutions per nautical mile. 2 versions are offered, 1 brass and 1 steel, both black epoxy coated. Provision is made to alter the streaming angle or the rotator wings by bending a part of 2 of the 4 wings. Bending it against the streaming angle means less revolutions per n.m., bending it in the same direction with the streaming angle means more revolutions per n.m.

### 3.) The Governor

The governor is made of cast brass and connected with the hook. Drawing No 3 shows the governor assembly.

#### 4.) The Log Lines

We supply log lines made of hemp of best quality. The diameter of the log line is 8 mm.

The desired length of the log line depends on the vessel's speed and the type of vessel. The higher the register is situated, the longer the log line must be.

The following values have been found suitable in practical use:

Maximum ship's speed of 12 knots - 40 fathoms line

Maximum ship's speed of 18 knots - 60 fathoms line

These values take into consideration that hempen log lines will get longer when they are wet



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