

25th November, 2016

Dear Customers,

**Notice : Influence on our Automatic Identification System(AIS)
by the leap second adjustment**

Thank you very much for using our products.

As you know, the leap second adjustment will be carried out on January 1, 2017.

Though no effect is expected for operation by the leap second adjustment on our GPS-equipped products, the equipment as listed below will have some influence.

Name of product to be checked

- AIS TRA-1000^{※1}
- AIS TRA-2000 (Part of the early model before Feb. 2007)

Description

Automatic Identification System (AIS) recognizes the current UTC time provided from the integrated GPS receiver. When the GPS receiver in both models the announcement of “ leap second implementation notice ”from the GPS satellites, they recognize the current time with one second later from the correct time. Even so, they work with no problem in the actual operation.

The broadcast of the announcement of “leap second implementation notice” is scheduled to start at 9:00 on Dec.2, 2016.

In addition, the announcement of “leap second implementation notice” will be finished on January 1, 2017 and both models will automatically recognize the correct time.

- ※1 TRA-1000 equipment had already discontinued product & maintenance.
So it is recommended to retrofit with Model Type TRA-3000.
TRA-3000 supports “leap second adjustment”.

For you reference

Announcement of the leap second:

Last bulletin C International Earth Rotation and Reference System Service (IERS)

<https://hpiers.obspm.fr/iers/bul/bulc/bulletinc.dat>

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**Marine Systems Company
TOKYO KEIKI INC.**