

Field service bulletin

Recommended setting for the 'analog output readback difference' and language pack for all SpeedSys versions

Bulletin no.:	FSB_SSY-20210714-1
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Applies to:	SpeedSys 200, SpeedSys300
Hardware version:	0.14.0
Firmware version:	1.20

To facilitate functional safety loops through the SIL 2 rated analog out of the SpeedSys units there is a readback function to validate the analog out, which compares the expected output with the generated output. If these two values differ more than the set allowed difference, the unit detects a diagnostic error and goes into safe state.

Based on customer feedback and the following investigation it was found that under certain conditions, related to ambient temperature and unit specific tolerances, the bottom limit for the field (0.1 mA) is set too low and can trigger false diagnostic errors.

To prevent future false diagnostic errors it is strongly recommended:

- 1) when used, to **set the value of the input field 'Analog output readback difference' on the DIAGNOSTICS tab no lower than 0.25 mA.**
- 2) that all users download and **use any language pack from version 1.13 or higher up to 1.xx**, which now contains the description for the new advised limits and the above recommendation.

The software packages that can be downloaded from the Istec website, have been updated and now contain the most recent language pack 1.13 and the new value pre-set in the configuration file.

Newly supplied units will come pre-programmed with the new default 0.25 mA value.

NOTE: this increase of the input field's bottom limit does not affect the SIL certification of the SpeedSys 200 and SpeedSys300.

NOTE: for those applications where the safety function for the analog out is not required, e.g. a speed display, it's advised to disable this function to prevent unnecessary diagnostic errors.

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