PRODUCT BRIEF

XENSIV™ - Evaluation tools

Programmer tool & software for linear sensors TLE4999

The TLE4999 family of high precision linear Hall sensors are available with PSI5 and Short PWM Code (SPC) interface and offers various programmable parameters. To get a first impression of the sensor's performance, the TLE4999 evaluation tooling is available including all necessary hardware and software to interface, run and program the sensor according to your needs.

The hardware evaluation setup consists of a PGSISI-3 interface box and an Evaluation board plus satellite board. The PGSISI-3 interface box is connected via a standard USB connection to any PC running a Windows operating system. The software delivered with the evaluation kit allows to read the output values from the sensor and perform all relevant programming steps including entering the parameters for temperature compensation and doing a two-point calibration and a multi-point calibration.

Together with your magnetic setup, the evaluation setup allows to appraise the performance of the TLE4999 in terms of flexibility, accuracy, and temperature stability.

Key features

Pre-requisites:

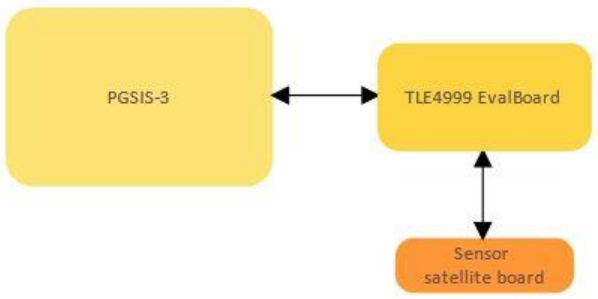
- PC running windows environment
- USB A port to connect PGSISI-3
- External magnetic setup for magnetic evaluation
- Manual setup of all programmable parameters
- Guided setting of temperature compensation coefficients
- Automatic gain and offset calculation for two point/multi-point calibration
- Real time feedback of sensor registers
- Burn and erase functionality for EEPROM memory
- Logging data in csv format



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A typical hardware evaluation setup consists of:
– PGSISI-3 programmer hardware box
– TLE49999 evaluation board
– Satellite board (to be ordered separately according to the selected product variant to evaluate)
– 24V DC power supply
– USB and PCB connection cables
– Quick start guide with link to download the programmer software, necessary drivers and application notes
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Block diagram



Programmer tool & software overview

Product name	Description	Compatible to linear sensors	Ordering code
TLE4999X program kit	PGSISI-3 + Evalboard	• TLE4999I3 (PSI5, PGSO-3-12) • TLE4999C8 (SPC, PG-TDSO-8-1) • TLE4999C8-S0001 (SPC, PG-TDSO-8-1) • TLE4999C4 (SPC, PG-SSO-4-1) • TLE4999C4-S0001 (SPC, PG-SSO-4-1)	SP001701202
TLE4999X evalboard	Evalboard		SP005400379
TLE4999I satellite	Satellite board for PSI5 variant		SP005400384
TLE4999C satellite	Satellite board for SPC variant		SP005400382

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