RLS-GD series Changes from RLS-GD-Scope V4.8 to RLS-GD-2REF-Scope V4.8

The text below summarises the changes that have been made with the software update from **RLS-GD V4.8** to **RLS-GD-2REF V4.8**.

With the **RLS-GD-2REF V4.8** software it is now possible to calibrate the sensor to two different surfaces. For this purpose the **TRIGGER** parameter now features the additional **2 REF** entry in the selection list.

TRIGGER	CONT 🔽
	✓ CONT
	SELF
	EXT1
	EXT2
	EXT3
	EXT4
	2 REF

When 2 REF is selected, an additional button labelled START CALIBRATION WITH REF2 appears in the CALIBRATE tab.

A click on the **START CALIBRATION WITH REF1** button calibrates the sensor for the present surface with 100GU.

If you then place another surface before the sensor and click on the **START CALIBRAION WITH REF2** button, the sensor is calibrated to this second surface with 100GU.

The calibration set that the sensor should operate with is selected through input **IN0** or with the **button** at the sensor housing.

If IN0=LO the sensor operates with the calibration values of REF1.

If IN0=HI the sensor operates with the calibration values of REF2.



CALIBRATE TO OTHER SYSTEM can be performed for both reference surfaces **REF1** and **REF2**. A click on **SAVE REF1 CALIB DATA TO EE** saves a table for calibration with **REF1** in the EEPROM. A click on **SAVE REF2 CALIB DATA TO EE** saves a table for calibration with **REF2** in the EEPROM.

RLS-GD-2REF-	SCOPE V4.8				
RLS-GD-2REF-Scope V4.8					
CONNECT	PARA CALIBRATE	TEACH TABLE	90.0-	-1	
RESET TABLE 0 GF VALUE ASSIGN TO TAB WRITE TABLE EEPROM (CALIE	RLS-GD 0.0 -1.0	OTHER 0.0 -1.0	30.0 85.0 80.0 75.0 70.0 65.0 60.0 65.0 50.0 65.0 50.0 60.0 55.0 60.0 55.0 60.0 50.0 60.0 50.0 60.0 50.0 60.0 50.0 60.0 50.0 60.0 50.0 60.0 50.0 60.0 40.0 60.0 30.0 60.0 20.0 60.0 10.0 60.0 50.0 60.0 60.0 60.0 70.0 80.0 90.0 70.0		
	GET	STOP	CALC CALIB DATA SAVE REF1 CALIB DATA TO EE SAVE REF2 CALIB DAT	A TO EE	

If **BIAS=ON** and **IN0=LO** the sensor operates with the calibration table for **REF1**. If **BIAS=ON** and **IN0=HI** the sensor operates with the calibration table for **REF2**.



The current calibration table on the user interface can be saved as a file on the hard disk or in the EEPROM of the sensor.

Date exchange can be started with **WRITE TABLE TO** and **READ TABLE FROM**. The target for data exchange can be selected in the drop-down list.

WRITE TABLE TO	READ TABLE FROM			
EEPROM (CALIBRATION TABLE OF REF1)				
FILE (Hard Disk)				
✓ EEPROM (CALIBRATION TABLE OF REF1)				
EEPROM (CALIBRATION TABLE OF REF2)				