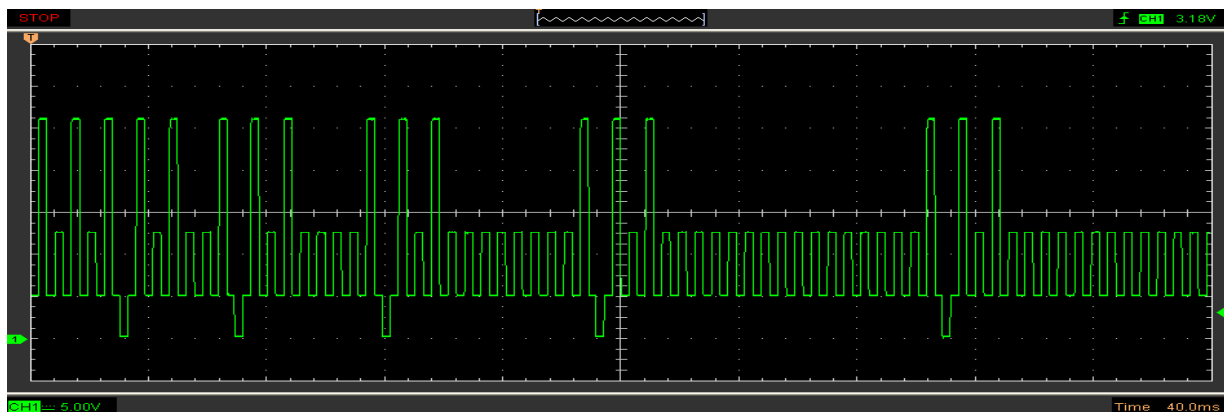


# SMMU-05 Application-Note 39

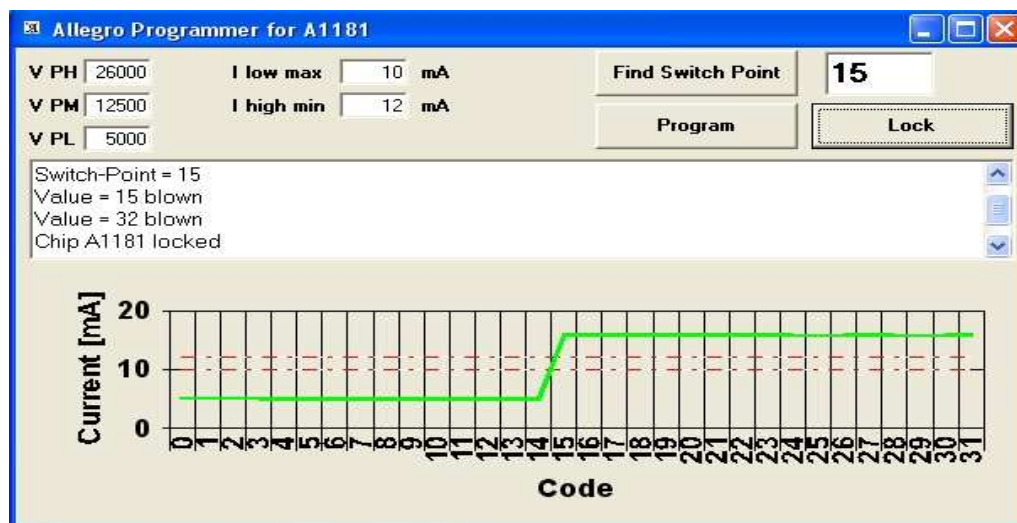
## Programmer und Tester for Allegro Hall Sensors

<b>Einsatzgebiet</b>	<b>Labor / Fertigungstest</b>
<b>Anwendung</b>	Programmierung und Test von Hall Sensoren der Firma Allegro
<b>Schlüssel-Anforderungen</b>	<ul style="list-style-type: none"> <li>Leistungs-Funktionsgenerator 0-34V / 400mA</li> <li>Versorgung des Hall-Sensors</li> <li>Erzeugung der Programmierimpulse mit definierbaren Spannungen</li> <li>Rückmessung des Sensors (Analog, PWM, SPI)</li> </ul>

### Example: Programming of Allegro A1181




Part of a programming pulse sequence with the 4 different voltages: 0V – init; 5V normal supply where current measurement takes place to determine switch open or closed. 12.5V for incrementing internal counters and 27V to select registers and do the programming of the fuses in the end.



Standalone Visual-Basic Application for programming the Allegro A1181 2-wire switching Hall sensor. By incrementing the internal counter registers of the A1181 the switch point for the actually applied magnetic field is determined and then programmed into the chip via special pulse sequences on the supply line.

### All programmable Allegro Hall Sensors are supported.

Sensors with 12-Bit Analog output, PWM output or SPI output can be measured. For positioning an actuating magnet or metal target a COM-Library for LinMot Motor-Controllers is available. Or the Stepper-Motor Interface see App-Note 34 can be applied.

<i>Hardware Hersteller:</i>	<i>PC-Software, Consulting und Vertrieb:</i>
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