

## Product Datasheet - Technical Specifications



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### Your contact

Technical and commercial sales, price information,  
quotations, demo/test equipment, consulting:

Tel.: **+49 - (0)81 41 - 52 71-0**

FAX: **+49 - (0)81 41 - 52 71-129**

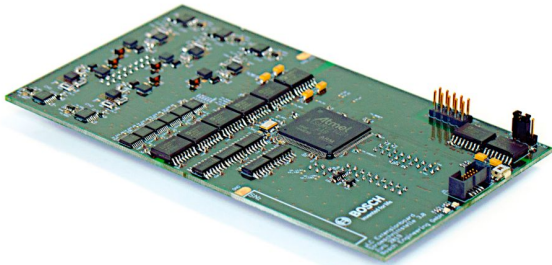
E-Mail: [sales@meilhaus.com](mailto:sales@meilhaus.com)

**Meilhaus Electronic GmbH**  
Am Sonnenlicht 2  
82239 Alling/Germany

Tel. **+49 - (0)81 41 - 52 71-0**  
Fax **+49 - (0)81 41 - 52 71-129**  
E-Mail [sales@meilhaus.com](mailto:sales@meilhaus.com)

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# Expansion Board Current Loop Interface



- ▶ All common wheel speed sensors can be simulated
- ▶ Simulation of gear speeds possible
- ▶ Speed calculation based on wheel circumference
- ▶ Current limits freely adjustable from 0 mA to 40 mA

The **Expansion Board Current Loop Interface** extends the functions of the **μLC Test System** without intervening the software and without activating additional mechanisms. The numbered outputs are available for this purpose. Using the five provided channels it is possible to simulate up to five independent sensors. With integrated Lua scripting and the provided API it is possible to create automated tests.

## Technical Specifications

TS		
Engine speed	-3,000 to 12,000 rpm	
Local pattern / teeth	48 to 60	
Signal duration forwards	35 to 55 μs	
Signal duration backwards	80 to 100 μs	
Gaps	0 to 10	
Prefixed bit	35 to 45	(de)activatable
Duty Cycle	737,000 μs	
Stand still signal duration	1,340 to 1,540 μs	
Stand still signal	150,000 μs	(de)activatable
AK		
Engine speed	-3,125 to 3,125 rpm	
Local pattern / teeth	48 to 60	
Parity	Even / odd parity	

LR-Bit	(de)activatable
LM0-Bit	(de)activatable
LM1-Bit	(de)activatable
LM2-Bit	(de)activatable
Stand still signal	150,000 μs

PWM-i		
Engine speed	-2,500 to 2,500 rpm	
Local pattern / teeth	48 to 60	
Duration LR	35 to 55 μs	(de)activatable
Duration DR_L	80 to 100 μs	
Duration DR_R	170 to 190 μs	
Duration DR_L_EL	350 to 370 μs	(de)activatable
Duration DR_R_EL	710 to 730 μs	(de)activatable
Stand still signal duration	1,430 to 1,450 μs	
Stand still signal period	737,000 μs	

PWM-s		
Engine speed	-5,000 to 5,000 rpm	
Local pattern / teeth	48 to 60	

## Ordering Information

**Expansion Board Current Loop Interface**  
Order number **F02U.V02.889-01**

