



**HEIDENHAIN**

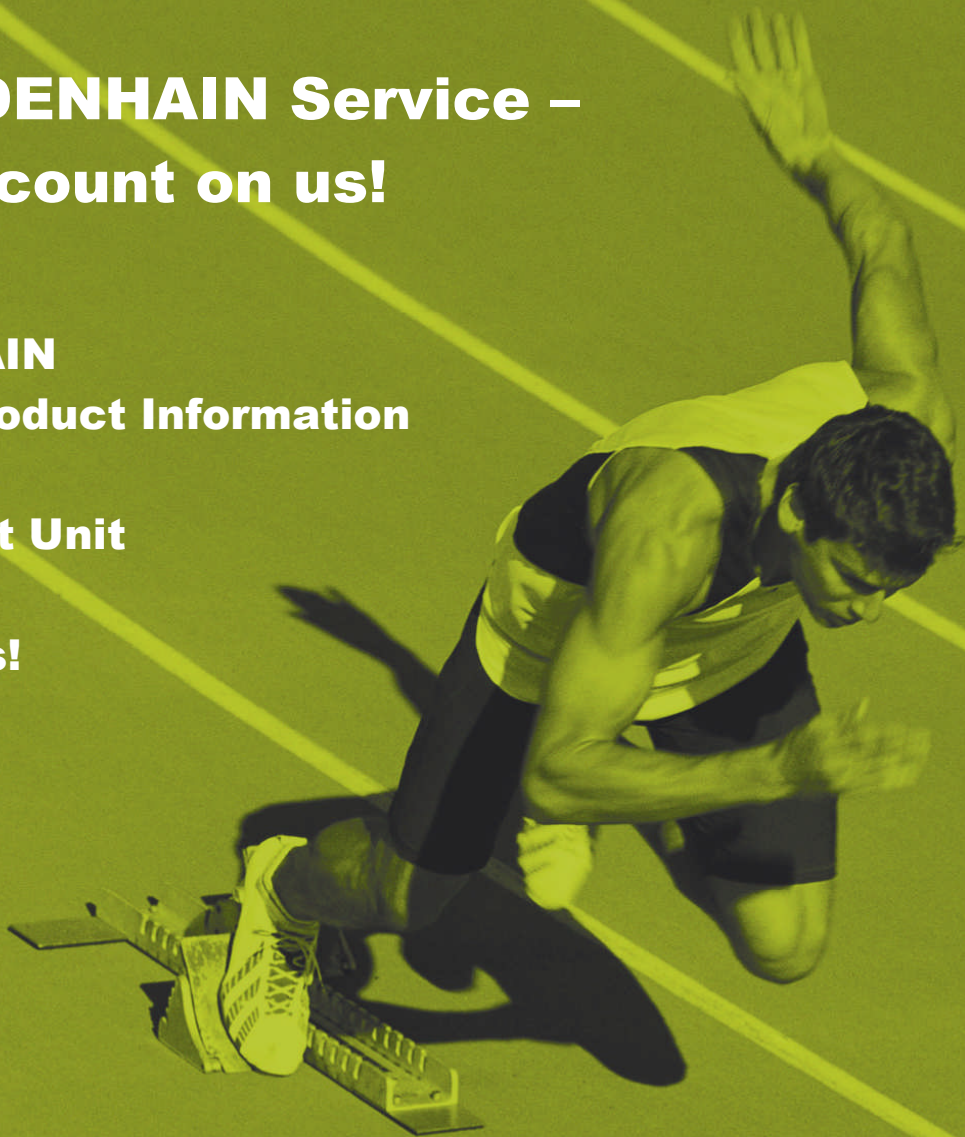
# **SERVICE NEWS**

**The HEIDENHAIN Service keeps you informed!**

**Issue 02 – 2008**

**The HEIDENHAIN Service –  
You can count on us!**

- + HEIDENHAIN  
Service Product Information**
- + PWM9 Test Unit**
- + Contact us!**



**NEW: [www.heidenhain.de/service](http://www.heidenhain.de/service)**  
Your direct link to the HEIDENHAIN Service

# HEIDENHAIN Service Product Information

## HEIDENHAIN Service Product Information 40 Years of Service Competence Available Online

The online service **HEIDENHAIN Service Product Information** provides fast and easy access to technical and practical knowledge of HEIDENHAIN products gathered over 40 years. Products that have been in the field for a long time are included as well.

To ensure that you don't miss any product information, the system also comprises accessories such as cables and testing equipment. The documentation area contains the most various publications such as manuals, exchange instructions and mounting instructions. The system also offers the possibility of saving and forwarding the links to selected products.

### How can I search the system?

For searching the system offers two possibilities:

- Either you search by product name.
- Or you search by product ID.
- Please click the HELP button for more information.

Hier finden Sie Ihr Produkt

Geben Sie hier bitte die Produkt ID oder den Produktnamen ein

Produkt ID: 315416-17

Produktname:

Suchen

Service-Produktinformation

Home + Produktsuche

Link senden

Produkt ID: 315416-17

Produktname: LB 382 840 5,0 ML/2 .. S 52S12 .. 0,00 -1Vss 39 01 ..

Produktbeschreibung

LB 382  
Inkrementales gekapseltes Längenmessgerät mit großprofiligem Maßstabgehäuse für Messlängen bis 3040mm (einteiliges komplettes Gerät)  
Messlänge: 840 mm  
Genauigkeitsklasse: ± 5,0 µm

Dokumente

Art	Sprache	Dokument-Nr.	Version	Blatt	
Montageanleitung	mu	324262	01	01	
Austauschanleitung	mu	349444	00	01	

Zubehör

Teile-Nr.	Teile-Name
<b>226270-02</b>	Anschlussstück m. Drossel

Nachfolger

Teile-Nr.	Teile-Name

### What kind of information is available?

- Basic information
- Article texts
- Successor units
- Accessories

### Which documents are available?

- Exchange Instructions
- User's Manuals
- Mounting Instructions
- Service Manuals

You will find the Service Product Information under:

[www.heidenhain.de](http://www.heidenhain.de)

- Services and Documentation
- Technical Service
- Service Product Information

Or you visit:

<http://hesispub.heidenhain.de/hesis>

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# Testing Equipment for HEIDENHAIN Encoders

## For 1Vpp, 11 $\mu$ App, TTL and HTL Interfaces

### PWM 9 – Modular Inspection Kit for HEIDENHAIN Encoders

The **PWM 9** is a universal measuring device for checking and adjusting incremental linear and angular encoders from HEIDENHAIN.

The values can be read on an LCD monitor. Soft keys provide ease of operation. The PWM 9 can be connected in series between the encoder and the subsequent electronics. Because the control loop is not interrupted, it is also possible to conduct **measurements during running operations**. The features are divided between the PWT mode and PWM mode.

In the **PWT mode**, the graphic bar display facilitates quantitative and qualitative evaluation of the analog incremental signals and the reference signal. The integrated adjustment aid for exposed linear encoders speeds the scanning-head mounting process.

In the **PWM mode**, the user can measure quantities such as on-off ratios, phase angle, and amplitudes of current and voltage. He can also configure the settings of the PWM 9.

For checking the various encoder signals, HEIDENHAIN offers a variety of expansion modules (interface boards) that are easily exchanged from outside the housing.



#### Inputs:

For PWM 9 there are 5 different interface boards. Each board supports one interface.

Currently modules are available for: 1Vpp, 11 $\mu$ App, TTL, HTL and EnDat/SSI/commutation signals (without display of position values or parameters).

#### Outputs:

Inputs are connected through to the subsequent electronics.

BNC sockets for connection to an oscilloscope.

#### Specifications:

##### Power supply:

10 V to 30 V, max. 15 W  
Power supply unit included

##### Dimensions:

150 mm x 205 mm x 96 mm

##### Weight:

approx. 2 kg

#### Functions:

**Measurement** of signal amplitudes, current consumption, operating voltage and scanning frequency.

**Graphic display** of incremental signals (amplitudes, phase angle and on-off ratio) and the length and width of the reference signal.

**Display symbols** for the reference mark, fault detection signal and counting direction.

**Universal counter**, interpolation selectable from single to 1024-fold.

**Adjustment aid** (PWT mode) for exposed linear encoders.



# Testing Equipment for HEIDENHAIN Encoders

## For 1Vpp, 11µApp, TTL and HTL Interfaces

### PWM 9 – Items Supplied and Training

#### Accessories:

##### ROD 486 – pulse encoder:

Electric signal generator for various applications and test setups.

##### FST2:

Leak tester for linear and angular encoders with 11µApp interface and 9-pin output connector; for detection of leak currents between the lines.

##### Voltage converter:

1Vpp to 11µApp  
ID 364914-01  
ID 364914-02

##### Line-drop compensator:

For 5 V  
ID 370225-01

##### Adapter connector:

Adapter for Z1/Zn track  
ID 349312-01  
ID 349312-02

##### Interface boards:

Modular system for different encoder interfaces

1 Vpp	ID 323077-02
1 Vpp/absolute	ID 312186-02
11 µApp	ID 323083-01
TTL	ID 323079-01
HTL	ID 322732-01

#### Items supplied:

The PWM 9 encoder diagnostic kit (ID 512134-01) comprises:

- PWM 9 basic unit
- Wall socket adapter
- User's Manual
- 3 BNC cables
- Connecting cables for 11µApp, 1Vpp/TTL and Absolute/1Vpp
- Sturdy case

#### Training:

The handling of the PWM 9 test unit, its operation and applications together with HEIDENHAIN encoders are the subject of the training courses [MG-DIAG] and [MG-SER].

Individual training courses can also be held on site; please contact our Training Department for this purpose.

For schedule dates and prerequisites, look into our Web page:

[www.heidenhain.de](http://www.heidenhain.de).

- Services and Documentation
- Training portal

Or ask for information by mail from:  
DR. JOHANNES HEIDENHAIN GmbH  
Technical Training  
Postfach 1260  
83292 Traunreut  
Germany

#### Further questions on the PWM 9 test unit?

If you have any further questions, just contact the HEIDENHAIN helpline for measuring systems:

Phone: +49 (8669)31-3104 or  
[service.ms-support@heidenhain.de](mailto:service.ms-support@heidenhain.de)

#### You require a quotation?

Place your request today!

Phone: +49 (8669)31 3135 or  
[service.order@heidenhain.de](mailto:service.order@heidenhain.de)



## Your Contact to the HEIDENHAIN Service

The HEIDENHAIN helpline for:  
repairs, spare parts,  
exchange units and complaints

Domestic Team  
+49 (8669) 31-3121

Foreign Team  
+49 (8669) 31-3123

Complaint Management  
+49 (8669) 31-3135

[service.order@heidenhain.de](mailto:service.order@heidenhain.de)

The HEIDENHAIN Technical Helpline:

Measuring Systems  
Machine Calibration+49 (8669) 31-3104  
[service.ms-support@heidenhain.de](mailto:service.ms-support@heidenhain.de)

NC Programming  
+49 (8669) 31-3103  
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Lathe Controls  
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For more information, visit our website:  
[www.heidenhain.de/service](http://www.heidenhain.de/service)