



HEIDENHAIN



Do you have technical questions about our inspection and testing devices?

Please contact the free HEIDENHAIN helpline:

Encoders / machine calibration
☎ +49 8669 31-3104
E-mail: service.ms-support@heidenhain.de

Or inform yourself on the Internet:
www.heidenhain.de > Products > Subsequent Electronics

Do you need a quotation?

Ask for your individual quotation today:

☎ +49 8669 31-3121
E-mail: service.order@heidenhain.de

Do you need training on encoder diagnostics?

For schedule dates and prerequisites, check our website at:

www.heidenhain.de > Training

Or contact us directly:

☎ +49 8669 31-3049
E-mail: mtt@heidenhain.de

All information about the HEIDENHAIN Service can be found at <http://heidenhain.services/>

HEIDENHAIN encoders provide all information necessary for commissioning, monitoring and diagnostics.

The information available depends on the interface and the type of encoder. HEIDENHAIN offers the appropriate PWM inspection devices and PWT testing devices for encoder analysis.

The PWM inspection devices can be used universally. They have low measuring tolerances and can be calibrated. Testing devices, like the PWT 100, have a simpler performance range and larger measuring tolerances. They cannot be calibrated.

Diagnostic functions:

- Encoder diagnostics with PWM and PWT:
The encoder is connected directly to the testing or inspection device.
- Diagnostics in the control loop with PWM:
The PWM phase meter is looped into the closed control loop.



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PWM 21

The PWM 21 inspection device including ATS software serves for diagnostics and adjustment of HEIDENHAIN encoders with absolute and incremental interfaces.



PWT 100

The PWT 100 is a testing device for checking the function and adjustment of incremental and absolute HEIDENHAIN encoders.

PWM 21
PWT 100

HEIDENHAIN

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Inspection and Testing Devices for HEIDENHAIN Encoders

Encoder diagnostics



The PWT 100 is a testing device for checking the function and adjustment of incremental and absolute HEIDENHAIN encoders. Thanks to its compact dimensions and robust design, the PWT 100 is ideal for mobile use. A 4.3-inch flat-panel, color touchscreen provides for display and operation.

The PWT 100 supports a variety of functions depending on the encoder or the interface. For example, for encoders with EnDat interface you can not only display the position value but also export the online diagnosis, shift datums, and perform further inspection functions.

Properties

- Testing device with integrated 4.3" touchscreen
- Voltage supply via external power supply unit
- Performance range can be expanded through firmware updates

Available functions

The performance range of the PWT 100 can be expanded by firmware update. Appropriate firmware files that can be imported to the PWT 100 through a memory card (not included in delivery) are available at www.heidenhain.de.

Mounting wizard

The PWM 21 is recommended as a mounting tool for the adjustment of HEIDENHAIN encoders that require a special mounting wizard (for example LIP 2xx, ERO 2xxx).

Encoder interfaces

- EnDat
- Fanuc
- Mitsubishi
- Panasonic
- Yaskawa
- 1 V_{PP}
- 11 μA_{PP}
- TTL

You can find more information in our *PWT 100* Product Information document.



Product Information
PWT 100
Testing Device for HEIDENHAIN Encoders

It can also be downloaded from www.heidenhain.de.



HEIDENHAIN offers an adjusting and testing package, consisting of the components listed below, for diagnostics and adjustment of HEIDENHAIN encoders with absolute and incremental interfaces.

PWM 21

Inspection device for connection to a PC via the USB interface

ATS

Adjusting and Testing Software with integrated local encoder database for automatic encoder identification

The PWM 21 is the successor model to the PWM 20. The performance range and the housing are unchanged. Only the board assembly has changed. The PWM 21 is supported as of ATS version V3.2.1. Future versions of ATS will continue to support PWM 20 devices.

Properties

- Universal inspection device with comprehensive diagnostic and adjusting functions via ATS software
- Calibratable
- Performance range of the ATS software is continuously expanded

Available functions

The functions supported by the ATS software vary depending on the encoder and the encoder interface. The EnDat interface makes it possible not only to display the position value, but also to read out the online diagnostics, to read or write parameters, shift datums, set write-protection and use further inspection functions, etc.

Encoder interfaces

- EnDat
- DRIVE-CLiQ (registered trademark of Siemens AG)
- Fanuc
- Mitsubishi
- Panasonic
- Yaskawa
- SSI
- 1 V_{PP}
- 11 μA_{PP}
- TTL
- HTL (via adapter)

You can find more information in our *PWM 21/ATS-Software* Product Information document.



Product Information
PWM 21
ATS Software

It can also be downloaded from www.heidenhain.de.