



HEIDENHAIN



Preliminary
Product Information

PWT 100

Testing Device for
HEIDENHAIN Encoders

PWT 100

Testing device for HEIDENHAIN encoders

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 touchscreen provides for display and operation.

The PWT 100 supports a variety of functions depending on the encoder or the interface. For encoders with EnDat interface, for example, besides displaying position values it enables you to read out the online diagnostics, shift datums and use further inspection functions.

Inspection and testing devices from HEIDENHAIN

HEIDENHAIN encoders are provided with all information necessary for commissioning, monitoring and diagnostics. 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 significantly larger measuring tolerances. They cannot be calibrated.

Ordering options

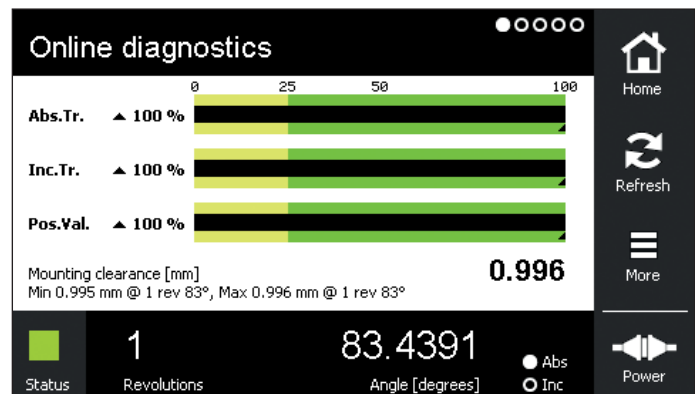
The PWT 100 can be ordered with or without a service case. Depending on the order, a wall adapter power supply is included in delivery. Please note: The power adapters may have limitations with respect to certain regional test standards. If required, please refer to your contact person at HEIDENHAIN.

Available functions

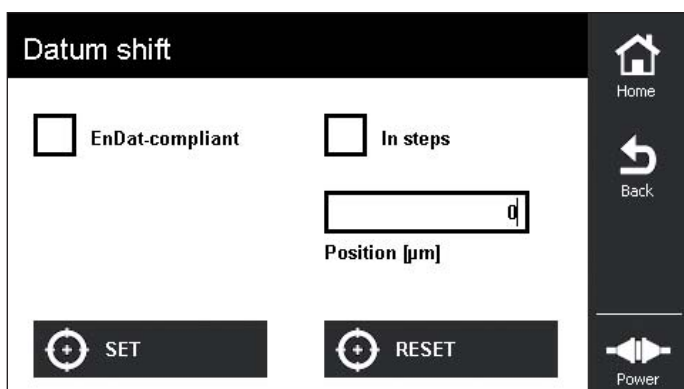
The performance range of the PWT 100 can be expanded by firmware update. Appropriate firmware files that can be imported to the PWT100 through a memory card (not included in delivery) will be made available at www.heidenhain.de. The functions described below apply to software version 1.0.0. This software version does not yet support all planned interfaces, functions and dialog languages.

Mounting wizard

The PWM 20 is recommended as a mounting tool for adjusting HEIDENHAIN encoders (e.g. LIP 2xx, ERO 2xxx, ERP 1xxx) that require a special mounting wizard. As far as the adjustment of encoders is concerned, the PWT 100 can only be used for online diagnostics.



Online Diagnostics



Zero point shift



Encoder voltage

Available functions

Feature content of the PWT 100 with V1.0.0	EnDat 2.2	Fanuc	Mitsubishi	Panasonic
Position display Display of the absolute position Display of the incremental position (if available) Display and resetting of error messages Display and resetting of warnings Display of transmission status	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ - ✓ ✓ ✓
Diagnostics Display of online diagnostics Display of supply voltage and supply current	✓ ✓	✓ ✓	✓ ✓	✓ ✓
Additional functions (if supported by the encoder) Datum shift ("electrical zeroing of position")	✓	-	-	-
Memory contents Display of encoder information	✓	✓	✓	✓

Encoders with the DRIVE-CLiQ, Yaskawa, 1 V_{PP}, 11 μA_{PP}, and TTL interfaces as well as further display functions will be supported in future software versions (planned for 2017).

PWT 100 testing device

Testing device	PWT 100
Area of application	<ul style="list-style-type: none">• Testing the correct operation of absolute and incremental HEIDENHAIN encoders
Encoder input Only for HEIDENHAIN encoders	<ul style="list-style-type: none">• EnDat 2.2• Fanuc Serial Interface• Mitsubishi high speed interface• Panasonic Serial Interface
Display	4.3" color flat-panel display (touchscreen)
Voltage supply	24 V DC Power consumption: max. 15 W
Operating temperature	0 °C to 40 °C
Protection EN 60 529	IP20
Dimensions	≈ 145 mm x 85 mm x 35 mm
Languages	German and English (further languages in development)

Items supplied

- PWT 100
- Documentation

Accessories

- Service case
- Wall adapter power supply (including exchangeable adapter for Europe, USA, UK and Australia)



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