

Приборы для проверки и тестирования РWT 101

Технические характеристики

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PWT 101

Testing device for HEIDENHAIN encoders

The PWT 101 is a device for the functional testing and adjustment of incremental and absolute HEIDENHAIN encoders. Thanks to its compact and rugged design, the PWT 101 is ideal for portable use. Operation and visual display are carried out on a 4.3-inch touchscreen.

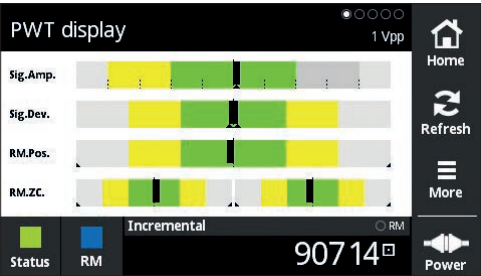
The PWT 101 supports a variety of functions depending on the encoder and the interface. With encoders featuring the EnDat interface, for example, you can display the position value, export online diagnostic data, shift datums, and perform further inspection functions.

Inspection and testing devices from HEIDENHAIN

HEIDENHAIN encoders provide all the information needed for initial setup, monitoring and diagnostics. For the analysis of these encoders, HEIDENHAIN offers the appropriate PWT testing units and PWM inspection devices. The PWM inspection devices, which are universally deployable, feature low measuring tolerances and can be calibrated. Testing devices such as the PWT 101 provide fewer functions, have wider tolerances and cannot be calibrated.

Functionality

The functionality of the PWT 101 can be expanded through a firmware update. The firmware files are available at www.heidenhain.com. They can be uploaded to the PWT 101 via a memory card (not included).



PWT display

Key new features in firmware V4.0.0:

- Encoders with the EnDat 3 interface now supported
- Standardized user experience for all interfaces

Successor product to the PWT 100

The PWT 100 is succeeded by the PWT 101, which incorporates the functionality of the PWT 100 but also supports special firmware modules. The PWT 100 will still be supported by future firmware versions but will not permit the use of firmware modules. The PWT 101 is supported by firmware V2.2.1 or later.

Firmware modules

The module management function of the PWT 101 differentiates between firmware (basic functions) and firmware modules. The firmware modules permit the implementation of special functions and support for other encoder manufacturers.

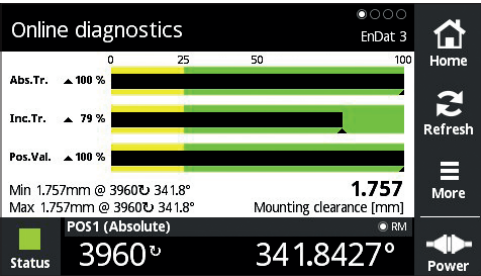
Encoders	Mounting and the mounting wizard
LIC 21xx, LIC 31xx, LIF 4xx, LIF 1xx, LIDA 4xx, LIDA 2xx and ERM 2xxx	PWT 101 and PWM 21 with ATS software
LIC 41xx, LIP 3xx, LB 3xx, LC 2xx, PP 281, ECA 4xxx, ECM 24xx, ERA 4xxx, ERA 7xxx, ERA 8xxx and ERP 880	Possible with the PWT 101 to a limited extent: For optimal mounting quality, please use the PWM 21 with the ATS software
LIP 2xx, LIP 6xxx, ERP 1xxx, ERO 2xxx, PP 6xxx and MKV 1xxx	PWM 21 with ATS software required

The PWT 101 permits rapid switching between modules, thus enabling the user to react flexibly to different kinds of demands. The following firmware modules are currently available for assistance while checking the function of encoders and adjusting them:

- AMO encoders (for more information, visit www.amo-gmbh.com/en)
- NUMERIK JENA encoders (for more information, visit www.numerikjena.de/en)
- RENCO rotary encoders with and without block commutation (for more information, visit www.renco.com)

Mounting wizard

The PWM 21, together with the adjusting and testing software (ATS), is recommended for the mounting of exposed or multi-section linear encoders and modular angle encoders. If supported by the encoder interface, the PWT 101 can be used as well, but with limitations.



Online diagnostics

	PWT 101
Area of application	• Functional testing of absolute and incremental HEIDENHAIN encoders
Encoder input only for HEIDENHAIN encoders	• EnDat 3 ¹⁾ • EnDat 2.2 (with or without incremental signals) or EnDat 2.1 • DRIVE-CLiQ • Fanuc Serial Interface • Mitsubishi high speed interface • Panasonic Serial Interface • Yaskawa serial interface • 1 V _{PP} with Z1 track • 1 V _{PP} • 11 µA _{PP} • TTL • HTL (signal adapter ID 1093210-01 required)
Display	4.3-inch touchscreen
Supply voltage	DC 24 V Power consumption: max. 15 W
Operating temperature	0 °C to 40 °C
Protection EN 60529	IP20
Dimensions	≈ 145 mm × 85 mm × 35 mm
Languages	German, English, French, Italian, Spanish, Japanese, Korean, Chinese (simplified), Chinese (traditional)

¹⁾ An SA 1210 adapter is required for connecting encoders with the E30-R2 ordering designation. The Bus operation function is not supported.

Note: The USB connection X5 is currently not supported; in the case of AC adapters, there may be regional limitations with regard to the required testing standard.

A separate version is available for Japan. Consult your contact person at HEIDENHAIN if required.

DRIVE-CLiQ is a registered trademark of Siemens AG

SA 1210

Accessory for connecting encoders with the E30-R2 ordering designation



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