

HEIDENHAIN



Product Information

PWM 20 ATS Software

Adjusting and testing package

HEIDENHAIN offers an adjusting and testing package for diagnostics and adjustment of HEIDENHAIN encoders with absolute and incremental interfaces. It consists of the following components:

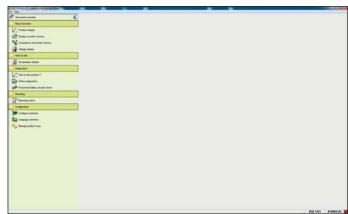
- PWM 20: Phase angle measuring unit for connection to a PC through the USB interface
- ATS: Adjusting and Testing Software with integrated local encoder database for automatic encoder identification

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.

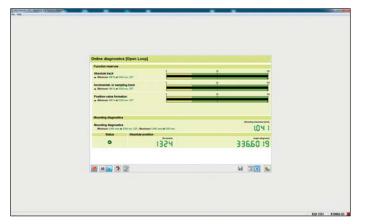
These statements in this document refer to the ATS software version V3.0

We recommend returning the PWM 20 to the HEIDENHAIN calibration service in Traunreut every two years in order to ensure traceable, accurate and error-free operation as test equipment.

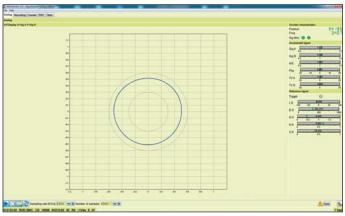




ATS software



Online diagnostics



Lissajou display of sinusoidal incremental signals

Available functions

EnDat	Fanuc	Mitsubishi	ISS	DRIVE-CLIQ	Yaskawa	Panasonic	1Vpp ²⁾ 11 µАpp ²⁾	Ħ	HTL ³⁾
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For the available interfaces, please refer to the encoder specifications.									
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 $^{^{1)}}$ In Feed-through mode; preferred in connection with a signal adapter, e.g. SA 100 or SA 110 $^{2)}$ 25 $\mu A_{PP}/3$ Vpp for service purposes $^{3)}$ Via signal adapter, for service purposes

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^(✔) See ATS Software Operating Instructions

PWM 20 phase angle measuring unit

Phase angle measuring unit	PWM 20
Area of application	 Testing the correct operation of absolute and incremental HEIDENHAIN encoders Mounting wizard for ExI, LIP 200, LIC 4000 and others
Encoder input Only for HEIDENHAIN encoders	 EnDat 2.1 or EnDat 2.2 (absolute value with/without incremental signals) DRIVE-CLiQ Fanuc serial interface Mitsubishi high speed interface Panasonic Yaskawa SSI 1 V_{PP} (3 V_{PP} only for service purposes) 11 μA_{PP} (25 μA_{PP} only for service purposes) TTL HTL (via signal adapter, only for service purposes)
Encoder output	Feed-through mode for certain interfaces (see <i>Available functions > Diagnostics);</i> (a signal adapter SA 100 or SA 110 is required for a galvanic isolation)
Interface	USB 2.0 (high speed)
Power supply	100 V to 240 V AC (± 10 %), 50 to 60 Hz (± 2 Hz), 24 V DC (± 2.4 V); Power consumption approx. 20 W
Operating temperature	0 °C to 45 °C
Protection EN 60 523	IP 20
Dimensions	Approx. 258 mm x 154 mm x 55 mm

Adjusting and testing software

Adjusting and testing software	ATS software V3.0
System requirements and recommendations	 PC with dual-core processor Clock frequency (recommended) > 2 GHz RAM > 2 GB Windows operating systems Vista, 7 (32-bit or 64-bit), 8 Approx. 200 MB free space on the hard disk Screen resolution ≥ 1024 x 768
Product key	Management of product keys for optional functions
Languages	Choice between English and German

HEIDENHAIN

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