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HEIDENHAIN Measuring and Test Equipment



In exposed linear encoders the scanning head moves over the graduation without mechanical contact. Thus, to ensure highest quality output signals, the scanning head needs to be aligned very accurately during mounting. HEIDENHAIN offers various measuring and testing equipment for checking the quality of the output signals.

The **PWM 9** is a universal measuring device for checking and adjusting HEIDENHAIN incremental encoders. There are different expansion modules available for checking the different encoder signals. The values can be read on an LCD monitor. Soft keys provide ease of operation.

	PWM 9
Inputs	Expansion modules (interface boards) for 11 µA$_{PP}$; 1 V$_{PP}$; TTL; HTL;EnDat*/SSI*/commutation signals *No display of position values or parameters
Features	• **Measures** signal amplitudes, current consumption, operating voltage, scanning frequency • **Graphically displays** incremental signals (amplitudes, phase angle and on-off ratio) and the reference mark signal (width and length) • **Displays symbols** for reference mark, fault detection signal, counting direction • **Universal counter,** interpolation selectable from 1 to 1024-fold • **Adjustment aid** for exposed encoders
Outputs	• Inputs are fed through for subsequent electronics • BNC sockets for connection to an oscilloscope
Power supply	10 to 30 V, max 15 W
Dimensions	150 mm × 205 mm × 96 mm

The **PWT** is a simple adjusting aid for HEIDENHAIN incremental encoders. In a small LCD window the signals are shown as bar charts with reference to their tolerance limits.



	PWT 10	**PWT 17**	**PWT 18**
Encoder input	∿ 11 µA$_{PP}$	⊓⊔ TTL	∿ 1 V$_{PP}$
Features	Measuring the signal amplitude Tolerance of signal shape Amplitude and position of the reference-mark signal		
Power supply	Via power supply unit (included)		
Dimensions	114 mm x 64 mm x 29 mm		

The **SA 27** adapter connector serves for tapping the sinusoidal scanning signals of the LIP 372 off the APE. Exposed pins permit connection to an oscilloscope through standard measuring cables.

	SA 27
Encoder	LIP 372
Function	Measuring points for the connection of an oscilloscope
Power supply	Via encoder
Dimensions	Approx. 30 mm x 30 mm

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