

"Your monitoring specialist"
certified ISO 9001 + ISO 14001



Press Analyser PAL 3001

Press analysis tool for crimping presses



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The mass production of wiring harnesses, especially in the automotive supply industry must meet and be verified according to the highest quality standards. The combination of state-of-the-art technology and long-term experience in the wire harness business makes the PAL 3001 to a most innovative and useful tool for the quality control in the wire harness production.

Performance Features

- 🌀 **Compact:** precise force control, height measurement and evaluation electronics in one device
- 🌀 **Intelligent:** sensor signals are processed by the integrated micro controller
- 🌀 **Comfortable, because battery-powered:** No tangled cables, no sockets required
- 🌀 PAL 3001 suits fully automatically the machine speed
- 🌀 "Slow motion" function for protection of press analyser and crimping press
- 🌀 Shut height settings possible with four different counterpoises (10 kN, 8 kN, 6 kN, 4 kN)
- 🌀 Measuring of the force and shut height stability under production conditions
- 🌀 Simple operation via PC-based operator interface
- 🌀 All settings are done automatically
- 🌀 Programmable clock generator
- 🌀 Simultaneous determination of the analysing capability of the crimp force monitor CFM MX via serial interface
- 🌀 Signal evaluation and trend monitoring online and offline available
- 🌀 Packing and storage in a stable case



Quality Management
Environmental Management
ISO 9001
ISO 14001
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The press analysis tool PAL 3001 checks the **machine capability of your crimping presses**:

- Fast and safe
- Immediate evaluation on the PC possible
- Results of measurement can be stored and retrieved in a database
- Reports can be printed in various formats
- Notebook function for maintenance jobs



Measured values are displayed as histogram

Job routines to test the presses are simple and require minimum expense of your time:

- Replace the crimping tool by the PAL 3001.
- Connect it with your laptop (no further cabling necessary).
- Start the program and the press – all parameters are calculated automatically.
- After the second cycle all settings are made automatically.
- After each cycle the current graphs are displayed. For the machine capability check a Cmk value will be calculated from all graphs.
- With the programmable relay you can start/stop cycles with a mouse click.
- All statistical data will be saved in the database for each press.



Robust transport case

Technical Data

• Power supply	10 x Ni-MH batteries, 1.2 V, 2000 mAh (only rechargeable batteries*), size AA
• Power supply charger	100 – 240 VAC / 18 VDC
• Battery capacity after full load	3 hours continuous operation (charge display on PC)
• Maximum measurable load	20 kN
• Resolution force sensor at 8 kN	25N
• Measuring path height sensor	Optimum shut height ± 250 µm
• Resolution height sensor	1.0 µm
• Dimensions (W x D x H)	100 mm x 140 mm x 140 mm
• Weight	4.4 kg
• Interface	RS232
• Relay output press start	Floating change-over contact up to 50 V AC/DC