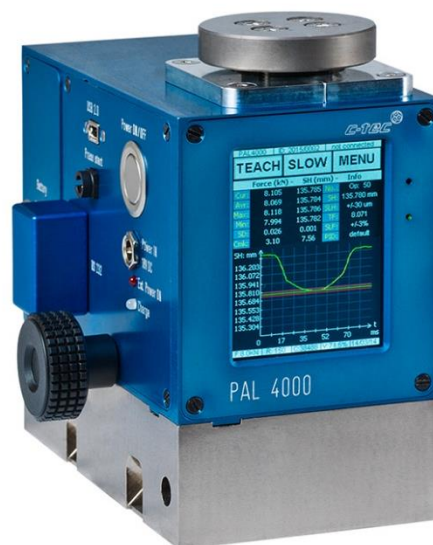


"Your monitoring specialist"  
certified ISO 9001 + ISO 14001

## Crimping Line

# Press Analyser PAL 4000

The new generation of press analysis tools



Press Analyser PAL 4000

The **Press Analyser PAL 4000** is a most efficient and innovative tool for the maintenance and capability check of crimping machines. New and unique features like colour touch display, integrated memory and USB interfaces in combination with our proven quality make the PAL 4000 to an essential tool for quality assurance in the wire harness production. Due to the modern touch screen an easy and comfortable operation as well as an immediate presentation of the measuring results directly at the device is possible. There is no need for an additional PC. Up to 100 measurements can be recorded in the integrated memory. The powerful battery allows a flexible use without electric hook-up.

## Performance features

- Colour touch display for easy operation
- Displaying of force and height curve and statistic data directly on the PAL display
- Displaying of force curve and statistic of crimp monitor
- Data entry directly in PAL 4000 possible
- Storage of up to 100 press analyses data
- Motorized force selection
- Highest measuring resolution
- No laptop needed for press setup or press analysis

## Crimping Line

### Further performance features

- Display of shut height, force or histogram
- Selection of colour combinations for the display
- USB interface for PC
- Synchronisation function between PAL 4000 and computer with PAL software
- Integrated RS 232 interface for crimp monitors
- Checking of various crimp force monitors via PAL 4000
- Auto power off (if not in use)
- Real time clock
- Counter for calibration cycles
- Logbook with memory for calibration and overload
- Count down function for relay box (delay time to shut the safety cover)
- Robust case for storage and transport
- Charger for fast battery recharging



Presentation of the measurement results

### Technical data

- |                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| • Power supply                     | Accu-Pack with 10xMignon Accu NiMH, 2000 mAh (only rechargeable batteries*), size AA |
| • Charging device                  | 115 – 230 V AC to 24 VDC                                                             |
| • Battery capacity after full load | approx. 6 hours                                                                      |
| • Counterforce                     | 1 - 20 kN                                                                            |
| • Maximum measurable load          | 20kN                                                                                 |
| • Resolution height sensor         | 0.5 µm                                                                               |
| • Measuring path height sensor     | optimum shut height ± 400 µm                                                         |
| • Resolution force sensor at 8 kN  | 2.5 N                                                                                |
| • Interface to PC                  | USB 2.0                                                                              |
| • Interface to crimp monitor       | RS 232                                                                               |
| • Press start signal               | Relay contact NO/NC                                                                  |
| • Dimensions (W x D x H)           | 100 mm x 140 mm x 140 mm                                                             |
| • Weight                           | 4.6 kg (without accessories and case)                                                |



Robust case – protected from splash water and dust