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## Crimping Line

# Crimp Force Monitor CFM-PRO touch

Quality control system for wire harnessing



Crimp Force Monitor CFM-PRO touch

With the Crimp Force Monitor CFM-PRO touch the quality of crimp connections can be monitored during production. A piezoelectric strain sensor is being installed in the frame of the crimping press for measuring the elongation of the frame. These values are compared to reference values by the CFM-PRO touch.

In case of exceeding the defined tolerances, the device gives an alarm and stops the crimping press. Continuous monitoring ensures the consistently high quality of the crimp connections.

## Performance features

- Easily adaptable to manual presses and semi-automatic stripper crimper machines
- Modern touch display allows comfortable operation
- Automatic trigger system: no sensors required, but it's use is possible on request
- Simple T1, T2, T3 & TD analysis tools
- Many output signals available for sorting, machine stopping, short wire cutting during teach-in, chopper interfaces...
- Pro-Lite analysis software for PC
- All critical functions can be protected from unauthorized use by either using a code word or a security dongle
- Optional: piezo ring sensor for use in ram or base plate



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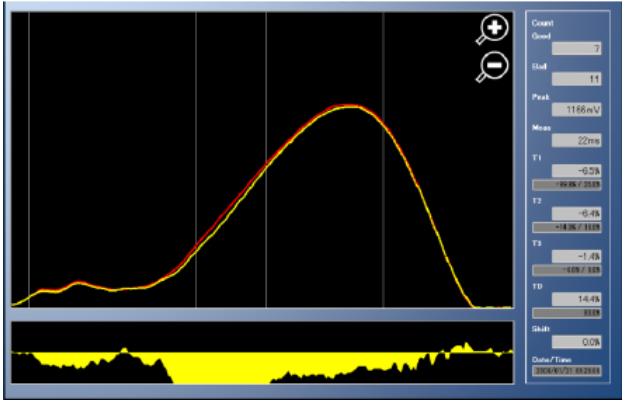
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Normal crimp force curve of a good crimp displayed in PRO-Lite (reference curve in red is congruent with yellow actual force curve)



T1, T2, T3, TD analysis tools



Simplified tolerance settings

The following defects can be detected safely:

- ☉ Strands out / Insulation in core crimp
- ☉ High insulation
- ☉ Low conductor
- ☉ Insulation barrel bent in or outside
- ☉ Inappropriate wire gauge

## Technical specifications

☉ Equipment name / type	<b>CFM-PRO touch</b>
☉ Power supply	100 – 240 VAC, 50-60 Hz
☉ Application	Manual presses, semi-automatic stripper crimper machines
☉ No of presses monitored	1
☉ Minimum wire size	AWG28
☉ Used sensor	piezo strain sensor for mounting on the press frame optional: piezo ring sensor for use in ram or base plate
☉ Standard equipment	1x main unit with mounting bracket 1x piezo strain sensor 1x BNC cable 1x I/O cable 1x power supply 100 – 240V AC / 24 V DC with cable 1x USB 2.0 cable
☉ Data interface	Optional: Dongle for access protection USB 2.0
☉ Dimensions (W x D x H)	137 x 84 x 50 mm
☉ Weight	approx. 0.5kg

