Schleuniger

ACO 08
Crimp Force Monitor

- User-friendly device management as well as simple referencing and operation
- Job management for quick and easy setup processes
- User administration for data and parameter protection
- Generation of live force diagrams while production is running
- Barcode interface for quick and easy job loadings
- 8 GB of memory for jobs, force curves and data storage, as well as 4.3-inch touchscreen display

QUALITY ASSURANCE

ACO 08

Concept
The ACO 08 electronic crimp force monitoring system was designed to meet the high quality requirements of the wire harness industry. The ACO 08 is a compact device that can be easily integrated into all Schleuniger benchtop crimping presses, but also into similar third-party products. It enables the monitoring of crimping processes by analyzing each individual crimp force curve in detail while production is running, helps the operator to optimize processing steps, and documents measurement results.

The ACO 08 features an easy-to-understand programming concept, an intuitive setup procedure and a capacitive 4.3-inch touchscreen display, guaranteeing user-friendly and fast operation. Its sophisticated job management system allows all critical job parameters to be configured, making it possible to switch between different jobs quickly and easily and thus significantly reducing changeover times. Processing parameters and force curves are saved in the 8 GB memory to minimize the number of reference crimps. Jobs can be recalled quickly via barcode interface and the user administration protects important data and parameters against changes by unauthorized operators.

The ACO 08 stands for highest production precision and enables manufacturers to produce an excellent, fully functional quality product. It reduces reject rates to a minimum and prevents unnecessary wear parts. Furthermore, the ACO 08 allows manufacturers to trace their production and can be used on fully automatic wire processing machines thanks to flexible interfaces.

Functions
- Crimp analysis (envelope and/or area)
- Synchronous 2-channel surveillance to monitor double crimp
- applications on a press
- Trendview based on the last 40 results
- Storage of all measured data on internal SD card
- User administration
- Job management
- Automated parameter setting
- Crimp machine presettings
- Extended headroom study
- Support of different sensor types for force measurement
- (piezo or frame sensor)
- Multi-reference (up to 4 different references)

Technical Specifications	
Line Voltage	24 VDC
Dimensions (L x W x H)	96 x 134 x 41 mm (3.8" x 5.3" x 1.6")
Weight	Ca. 500 g (1.1 lbs.)
Languages	German, English, French, Italian, Spanish, Czech, Polish
Crimp References	1 to 20
Baud Rate	Up to 115,200
Measuring Range	0 to 20.000 kN (0 to 4,496 lbf)
Unit of Measure	N, lb
Resolution	± 0,6 kN
Power Consumption	4,8 W
Operating Temperature	0 to 50°C (0° - 122° F)
Sensor Type	Piezo (active or passive) in base plate or strain sensor to mount on a press frame.
Amount of Channels	2
Human Interface Device (HID)	4.3" graphical touch screen (capacitive)
Memory Capacity	8 GB (µSD)
Interfaces	Ethernet (10/100BaseT) / USB interface / digital I/O
Triggering	– External, e.g. digital signals – Internal
Software	Wincrimp 8.0 for further analyses and statistics (optional)
CE Conformity	The crimp force monitoring system ACO 08 complies with the CE and EMC equipment guidelines relative to mechanical and electrical safety as well as electromagnetic compatibility.