

Crimp Force Analyser System – in general



Crimp Force Analyser System

- Patented 3 zone analysis algorithm
- English, French, German, Italian, Spanish, Hungarian, Portuguese and Polish language support
- Programmable relay and opto inputs for easy machine/peripheral interface
- Optional Windows 95/98/NT/2000/ME/XP user site management software
- Comprehensive online statistics including process Cpk and Cp
- Easy intuitive user interface reduces training costs
- Base plate or inline ram force sensor
- Force curve can be viewed online
- Alphanumeric password facility
- Encoder or Time trigger modes
- Universal mains PSU for worldwide operation
- Batch buffer holds last 1000 results
- Useful bench top batch counter facility
- Up to 255 units can be networked
- FCC & CE approvals

Class leading performance

The CFA1000 has been designed to detect the following common problems:

- Missing/bent wire strands
- Incorrect insulation strip
- Strands outside main crimp
- Insulation in main crimp
- Insulation crimp faults
- Crimp misfeeds
- Incorrect wire use
- Incorrect terminal use

Bringing the following key benefits

- Improved quality
- Eradication of tooling breakage
- Reduced machine downtime
- Reduced production costs

Class leading technology

As the result of 3 years R&D effort with some of the industry's leading names, the *Circuitmaster CFA1000* represents the current state of the art in Crimp Force Analysis. The patented 3 zone algorithm combined with application of the very latest technology allows the CFA1000 to offer unprecedented levels of good/bad sorting whilst remaining easy and intuitive to use.

CFANET

CFANET allows up to 255 units to be networked together. This allows quality data to be gathered in a central place for storage and analysis. In addition the system allows remote setup of CFA parameters ensuring that correct settings are always used on the shop floor.

Technical Specification

Repeatability	0.1%
Resolution	10 Newtons
Batch Storage	Last 1000 results
Measurement range	0-20KN (2 Tonne)
Operating Temp	0-70°C (158°F)
Sensor Type	Piezoceramic
Unit Size	235x165x85 (mm) 9.3 x6.5 x3.3(inch)
Power	90-240Vac 50-60Hz
Evaluation Time	<20mS

Standard Equipment

- Evaluation unit with graphics display
- Ram force sensor
- Position encoder unit
- Press Interface Lead

Options

- Force Base plate
- Windows offline network software
- *CFANET* kit
- Timer mode trigger sensor

Class leading flexibility

The flexibility of the CFA1000 allows the system to be used in virtually any target wire preparation application. A self trigger mode allows the unit to be used where no access is possible for encoder fitment, whilst force sensing can be provided by either standard base plate or inline ram sensor. The system is equally flexible when machine and peripheral interface is considered. Four freely programmable relay outputs allow configuration for machine, chopper and paper reel interface. This feature being further extended by the addition of two opto isolated inputs.

For more information please contact our sales department.
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