

CFA1000

Crimp Force Analyser System

CFA1000 Highlights

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

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 industries 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 allow the CFA1000 to offer hitherto unprecedented levels of good/bad sorting whilst remaining easy and intuitive to use.

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 baseplate 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.

Technical Specification

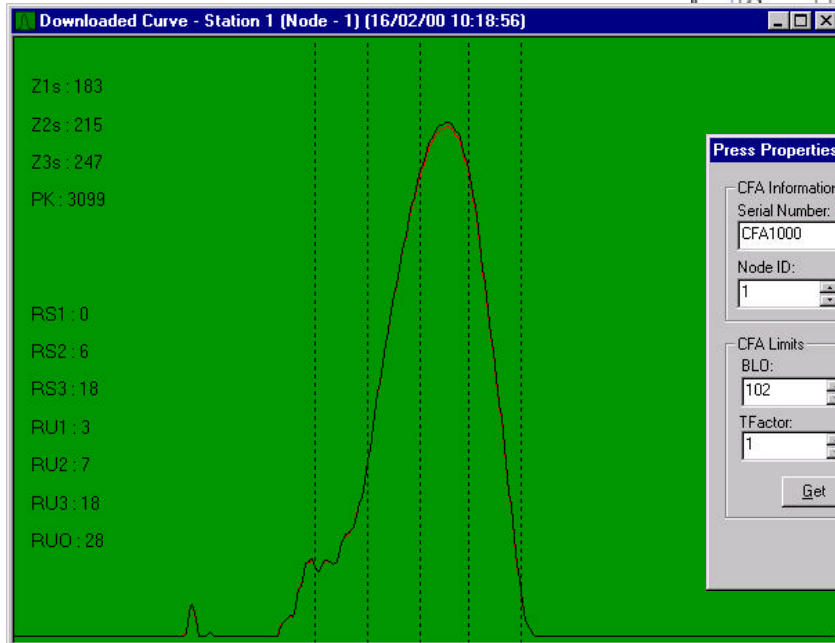
Repeatability	0.1%
Resolution	10 Newtons
Batch Storage	Last 1000 results
Measurement range	0-20KN (2 Tonne)
Operating Temp	0-70°C (158°F)
Sensor Type	Piezoceramic
Unit Size	235x165x85 (mm) 9.3 x6.5 x3.3(inch)
Power	90-240Vac 50-60Hz
Evaluation Time	<20mS

Standard Equipment

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

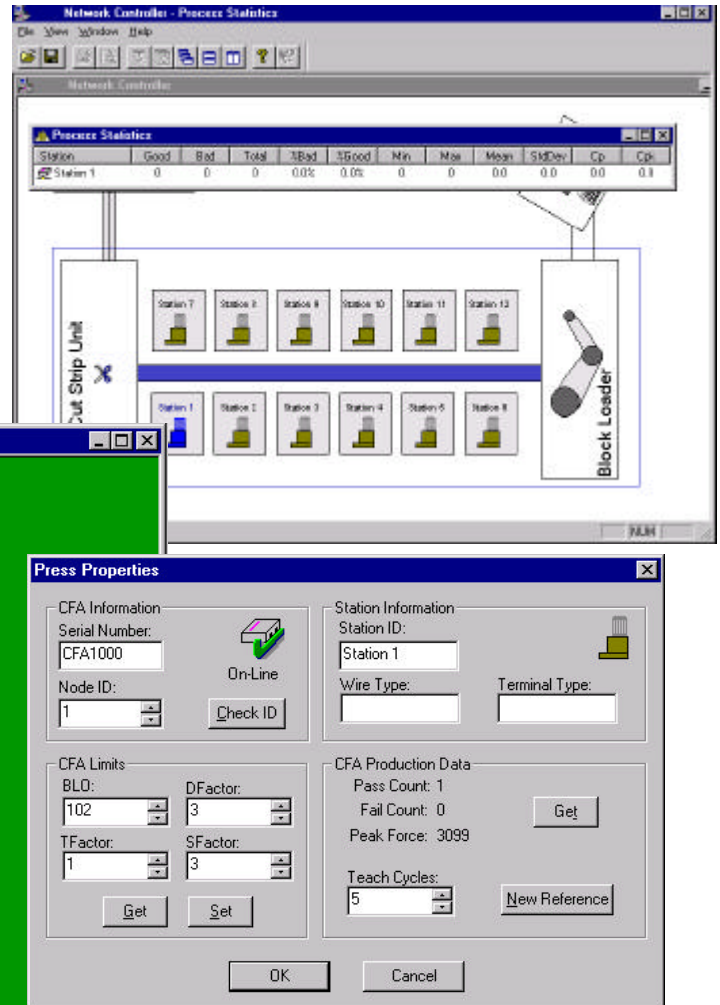
Options

- ◆ Force Baseplate
- ◆ Windows offline network software
- ◆ CFANET kit
- ◆ Timer mode trigger sensor



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.



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