Crimp Force Monitors

CFM-MX series

Force curve monitoring with Pro-MX software (optional)
Connecting to RS232C port on the back allows you to monitor force curves and to edit set values.

Piezoelectric force sensor
This series employs a highly precise and responsive piezoelectric force sensor, not like a load cell sensor usually employed with pressure measurement. This allows you to reduce the measuring time and enjoy the high inspection rate.

Working with crimping machines
This series has a 25pin I/O port on the back. This enables you to stop the crimping machine at an error signal, then also reset the monitor and direct the monitor to change modes such as teach-in, on the crimping machine.

- This series can be installed to almost any kind of crimping machines in the world, regardless of automatic ones or manual ones. We will be responsible for its installation and introduction trainings.
- With easy setting up, this series can totally inspect crimped terminals in line and find out defective items from them. This can prevent defective items from being dealt with in the downstream operations.
- Twenty tolerances are prepared for this inspection. You can select the most suitable one from them depending on combination of wires and terminals you work with. Therefore you can perform more effective inspections.

- Following defects are detected by CFM-MX (for reference)

Low conductor

High insulation (Insulation within the conductor crimp)

Insulation part in conductor crimp (Wire strands missing)

Missing strands of wire

- Main specifications

Model name	CFM-MX10	CFM-MX20
Number of channel	1	2
Power source	AC100 to 240V 50/60Hz	
Output	Good crimp confirmation pulse signal(EJECT); STOP relay signal at errors, TEACH signal	
Input	Remote TEACH, CFM-BYPASS, Trigger input, Part number changing input	
Communications	RSC232C, Software for force curve monitor Pro-MX (optional)	
Dimensions/Weight	W188×H72×D220 / 2.2kg	

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100% Quality Inspection

Crimp Force Monitor for manual presses
CFM-AP

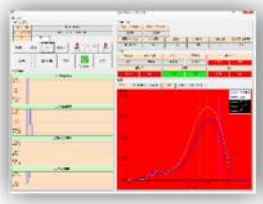
- CFM-AP has a touch panel, which allows you to monitor force curves without connecting to a PC.
- Its operation and setting are easier and simpler than those of CFM-MX series.
  Therefore everyone can operate it easily, although important parameters still remain.
- You can check the current crimping condition in real time, change parameters easily and precisely even while you are in crimping operation.

Software as standard accessory
This software allows you to check force curves, set parameters and save data.

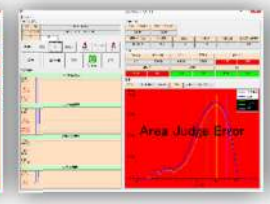
Touch panel on the front
You can operate it intuitively.

Data and images history management
You can store up to 30 history data with force curves. Each force curve can be conveniently reviewed to see how variable they are.

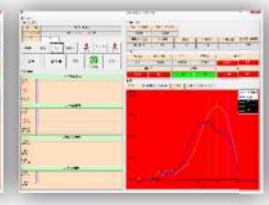
- Following defects are detected by CFM-AP (for reference)



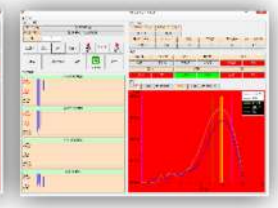
Low conductor



High insulation



Insulation part in conductor crimp (Wire strands missing)



Cut strands

- CFM-AP Specifications

Model name	CFM-AP
Number of channels	1（Converted from internal RS232C port into USB）
Power source	AC100 to 240V　50/60Hz（Main ±12V　+5V）
Output	Stop relay signal at errors
Input	Trigger signal input, force sensor input (BNC cable)
LCD	Color LCD（with a touch panel）
Tact time	0.4
Dimensions/Weight	W196×H75×D171 ㎜ / 2.0 ㎏

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