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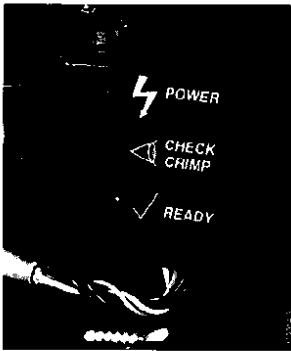
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sales@integrated-circuit.com

CQM-Jr. Crimp Quality Monitoring System

Product Facts — CQM-Jr.

- Real-time monitoring of every crimp
- Detects gross variations in crimp height
- Monitors up to 5 000 crimps per hour
- Easy to use — green light for “READY,” yellow for “CHECK CRIMP”
- No programming required
- No special applicators required
- May be added to existing AMP-O-LECTRIC Model “G” bench machines



CQM-Jr.

Technical Document

Instruction Sheet
 408-4279 CQM-Jr.

Specifications — CQM-Jr.

Electrical — 100-120 VAC, 60 Hz, 6 A, single phase;
 200-240 VAC, 50 Hz, 3 A, single phase
Size — 9.75 [250] W x 5.5 [140] D x 12.5 [305] H (Control Box)
Weight — 10.7 lb [4.9 kg] (Control Box)



CQM-Jr. is an easy way to monitor crimp quality. All you do is plug it in, turn it on, and start crimping. For each job, you calibrate the system by making five consecutive good crimps. You verify the crimps are good by inspecting them visually and measuring crimp height. It's that simple.

Like CQM, CQM-Jr. monitors crimp quality by checking crimp height as well as the shape of the force curve during each crimping cycle. When it detects a questionable crimp, it alerts you with a beep and “CHECK CRIMP”

indicator light (pictured at left). You inspect the crimp — first visually, and then, if necessary, by measuring crimp height.

After the initial calibration, the system continues to refine its stored reference parameters with each subsequent good crimp.

To recalibrate CQM-Jr. you press the “CQM-Jr. RESET” button mounted on the machine (above the warning label on the front guard pictured above). This clears its memory and turns the “READY” light off. You also clear its memory when

you turn the power off. The “READY” light comes back on after you've made five crimps. It stays on, yet blinks each time a crimp is detected to verify the system is operating.

CQM-Jr. was designed for use with the bench-top version of the AMP-O-LECTRIC Model “G” Terminating Machine with manual precision adjust. Unlike CQM, CQM-Jr. does not support automatic precision adjust.

The control box for CQM-Jr. is positioned behind the machine.

Ordering Information for CQM-Jr.

To use regular mini-style applicators with CQM-Jr., your Model “G” must be equipped with machine-

mounted sensors, called G-Adapter. CQM applicators with built-in sensors may also be used, but must

be connected to the control box using a separate hookup cable.

| Machine | G-Adapter | CQM-Jr. | CQM Applicator Hookup Cable |
|--|--|--------------------|-----------------------------|
| AMP-O-LECTRIC Model “G” Terminating Machine | | | |
| <i>With Manual Precision Adjust</i> | | | |
| 354500-1 | 122990-9 (Rev. H or Higher) ¹ | 318483-1 (120 VAC) | 764639-1 |
| | 1-122990-0 (Rev. G or Lower) | 318483-2 (220 VAC) | |
| 354500-9 | Included with Machine | 318483-1 (120 VAC) | 764639-1 |
| | | 318483-2 (220 VAC) | |

¹ Order 122990-9 for Model “G” terminating machines with revision code “H” or higher; 1-122990-0 for units with revision code “G” or lower. Field conversions require AMP Field Engineering assistance. Call the AMP Technical Support Center at 1-800-522-6752 for more information.