

The New PCS Contact Force Reduction Box

As Micro Tools become more widely used, there has been an increase in the need for reliable Tool Monitoring capable of detecting such fragile tools. Allora International researched this sector, and determined that a new product was needed to address the sensitive nature of these delicate tools. While the **SCU-100** and **TCU-250** control units are capable of detecting *small* tools, our customer feedback showed that these control units were unable to detect the smallest of Micro Tools.

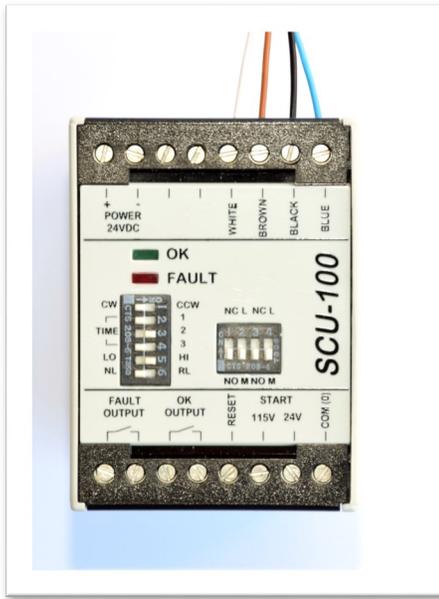
Allora International's new **CFR-300** Contact Force Reduction box addresses the needs of our customers by enabling users to monitor Micro Tools well below 0.5mm in diameter with precision and repeatability. As the name implies, the function of the **CFR-300** is to reduce the force of contact that the detection needle has with the tool. This is accomplished via the infinitely adjustable knob on the top face of the **CFR-300**. This intuitive design allows users to simply rotate the knob until the appropriate setting is made.

For both new and existing installations, the **CFR-300** allows users to take advantage of the latest technology in Micro Tool detection while leveraging the existing **PCS-100** and **PCS-250** technology. Customers already using **PCS-100** or **PCS-250** sensors can simply add the **CFR-300** to their existing set-up by wiring the **CFR-300** between the sensor head and the **SCU-100** or **TCU-250** control unit.



CFR-300 shown with an **SCU-100** control unit

The included blue wire provides users with everything required to add the **CFR-300** to a new or existing **PCS-100** or **PCS-250** installation. The installation is as simple as moving the blue wire of the existing sensor cable from the “BLUE” terminal of the **SCU-100** or **TCU-250** to the open terminal on the **CFR-300**. Next, connect the loose end of the included blue wire from the **CFR-300** to the “BLUE” terminal of the **SCU-100** or **TCU-250** control unit.



SCU-100 control unit, with sensor cable connected



CFR-300 with included blue wire



SCU-100 control unit with **CFR-300** and sensor cable connected

Once wired, the user simply rotates the black knob of the **CFR-300** clockwise to reduce the contact force. The red dot in the bottom left corner of the **CFR-300** represents the *maximum* contact force setting. By rotating the knob clockwise, the contact force is reduced and hence allows for even smaller Micro Tools to be monitored.

Order information

Contact Force Reduction box **CFR-300** includes a short blue wire, for connecting to a user-supplied **SCU-100** or **TCU-250**.

Please contact Allora International for pricing, or to place an order.



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