

URYU UEC 4100 Controller



Basic Setup Procedure

MC Tool Basic Set-up Procedure - UEC-4100

Procedure:

The following procedures are for basic tool set-up, and to be used for reference only.

1. Set switch on the back of the controller to M.S. (MC Tools) or S.G. (EC Tools) depending on your tool type.
2. Connect tool cable and tool to the controller.
3. Connect power to the controller.
4. Power on UEC-4100 using power switch on the front of the controller, the controller will go through initial diagnostics and then display either 00.0, or an error code. In either case controller will need to be programmed at this time. The following set-up should be performed step by step.

Press Keys	Function
MODE-9-9-ENTER-ENTER	UEC-4100 is now in programming mode.
2 (ZERO)-ENTER (ADJUST DISPLAY TO READ 0.0 +/-0.3) -ENTER	This number represents the transducers zero point (needs to be checked and adjusted every time a tool is changed). Adjust the display number to read 0.0 by turning the small zero adjust screw located on the front of the UEC-4100.
5 (CAL)-ENTER	This number represents maximum torque output of tool (full scale of transducer).
(ENTER CALIBRATION NUMBER)-ENTER	Enter tool calibration number, this number is determined from the number on the side of the tool. This number will vary depending on units of measure used (calibration number is available for tools on tool calibration number sheet). Tool calibration number sheet will give base number for set-up, final calibration number will be determined when tool is calibrated to customers torque audit method.
8 (HIGH)-ENTER	This number represents high torque limit of parameter
(ENTER HIGH TORQUE LIMIT)-ENTER	This number represents high torque limit of parameter
9 (CUT)-ENTER	This number represents target torque of parameter
(ENTER TARGET TORQUE)-ENTER	This number represents target torque of parameter
7 (LOW)-ENTER	This number represents low torque limit of parameter

(ENTER LOW TORQUE LIMIT)-ENTER	This number represents low torque limit of parameter
1 (START)-ENTER	This number represents the threshold torque value (torque value the UEC-4100 looks for to begin a rundown). Typically set to 1/8 (or higher) of calibration number.
(ENTER START TORQUE)-ENTER	This number represents the threshold torque value (torque value the UEC-4100 looks for to begin a rundown). Typically set to 20% of high torque limit.
3 (MODE)-1-0-ENTER	This number represents the number of decimal places on the display <ul style="list-style-type: none"> • 0 (no decimal place) • 1 (1 decimal place) • 2 (2 decimal places)
(ENTER NUMBER FOR DESIRED NUMBER OF DECIMAL PLACES)-ENTER	This number represents the number of decimal places on the display <ul style="list-style-type: none"> • 0 (no decimal place) • 1 (1 decimal place) • 2 (2 decimal places)
3 (MODE)-9-ENTER	This number represents mode of operation for the UEC-4100 <ul style="list-style-type: none"> • 1 (Monitor Torque Only) • 2 (Control Torque Only) • 3 (MC/EC Wrench-Torque Monitor & Control) • 4 (Monitor Torque & Angle) • 5 (Control Torque & Monitor Angle) • 6 (Control Angle & Monitor Torque)
(ENTER MODE OF OPERATION REQUIRED, USUALLY 2)-ENTER	This number represents mode of operation for the UEC-4100 <ul style="list-style-type: none"> • 1 (Monitor Torque Only) • 2 (Control Torque Only) • 3 (MC/EC Wrench-Torque Monitor & Control) • 4 (Monitor Torque & Angle) • 5 (Control Torque & Monitor Angle) • 6 (Control Angle & Monitor Torque)
PRESS RESET	This will reset the UEC-4100, and put it in the run mode.