CO2 WELDING CONTROLLER

by

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Project Report

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SUMMARY

TITLE: CO2 WELDING CONTROLLER

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The purpose of the project is to design, construct and test an arm suitable for CO2 WELDING TORCH. The arm and the work surface are driven by stepper motors. Each stepper motor is driven by a stepper motor driver.

The MTB 85-1 is used as a controller element within the system. By using a suitable software and a suitable converter circuit for the RS232C serial port of the PC the 8085 communicates with a PERSONAL COMPUTER and according to the commands of the operator the 8085 executes.

The operator can type the width and the length of the metal to be welded and according to the width the corresponding speed is selected automatically when the motors rotate and the arm is positioned accordingly above work surface.

The operator can also display the width and length and also by typing H a help menu appears on the screen.

The operator also by typing C the same operation is repeated continuously with same data.

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