

Dual Data Output Board (DDO) MA 3070 C

This board provides 2 serial output channels as well as RS232 support for your Flex-Weigh product.

New features of the revision C board include improved RS232 driver, it now provides +/-8V instead of +/-12 and doesn't use the analog power supply as the old one did. This will help break some of those ground loop problems that the old board was subject to. The current loop interface now has an automatic regulator to compensate for differing loads as well as an LED to show the current is flowing through the loop and the regulator is working. Improved speed is also provided as the current loop is no longer limited to 1200 baud, you can now use it at up to ***19200 BAUD!***

The main current loop port on TB2 of your DWM-IV, for example, provides 20ma current loop input and output ports that can be set for active or passive operation; however, if you were to enable both continuous and demand (polled or pushbutton) operation, both data streams would appear at the output.

This board will separate the two data streams and present them in both RS232 and current loop simultaneously. The second RS232 channel can be used to send a continuous data stream to your PC and still utilize the second current loop port for a scoreboard without any electrical interaction between them because the current loop ports are opto-coupled and use isolated power supplies. Channel one then could be used for a printer, either RS232 or current loop.

There are several jumpers on the board for setting options, they are:

- JP1 Used to tie the analog (+12/-12), and digital commons together.
- JP2,3 Used as a set position A provides current loop (normal setting), B provides 24V current loop (use this if you have a high load resistance and the current is too low to light the LED on the board for the regulator, if the light is not on it may still work but it may not be reliable).
- JP4,5 Used to enable current loop ports JP4 controls channel 1.
- JP6 Selects function of pin 7 on TB2, A selects DTR, B selects BAUD CLOCK output.

J1 is the main connector and connects to J6 on the DWM-IV motherboard.