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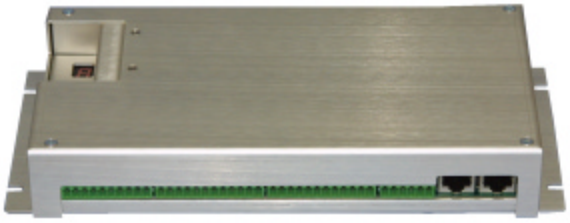
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ACC-52, MACRO IODEVICE

ACC-52, the MACRO IODEVICE, is Delta Tau Data Systems' solution for a low-cost simple I/O system that uses high bandwidth MACRO (Motion And Control Ring Optical) fiber optic technology. Any MACRO bus master is capable of driving the MACRO IODEVICE as if it were a part of the master itself.



The IODEVICE is capable of 16 outputs and 24 inputs. There are 8 analog-to-digital converter inputs, a port for an LCD display, and a differential input for an encoder.

There are two loop-break timers that may be set to perform output tasks should the IODEVICE stop receiving data from the master. These 2 timers are fully selectable for length of time and output. Timer outputs may write a word, logically AND, or logically OR data to the outputs. The length of time is user selectable for 0.1 second increments for both timers.

A device-mapping table allows the user to select which input devices are returned through the 3 high-speed slave node data MACRO registers. ALL inputs may be accessed by MACRO read commands.

An EEROM memory is provided to store timer and device mapping parameters. The stored parameters are reloaded automatically at power-up.

The MACRO IODEVICE was developed specifically for reducing a system's complexity when fiber optic control distribution is used.

Developing a simple MACRO slave device that performs an interface to inputs and outputs was the goal in developing the MACRO IODEVICE. Adding a MACRO IODEVICE completes the interface picture whereby a machine may contain one or more peripheral control panels that are capable of remotely controlling or interfacing to a machine.

The MACRO IODEVICE simplifies a system's design by separating the controller from peripheral I/O cabinets electrically. Imagine a large machine that is 100 feet in length, has multiple control stations that communicate back to the same PMAC, yet there is complete electrical noise immunity between the control cabinet and each peripheral device, and this results in a very reliable implementation.

FEATURES

- Addressable to any of 16 masters and 16 slaves
- MACRO type 0 slave device
- 16 Current Source or Current Sink Outputs, 100 mA each @ 5-24 VDC
- 8 analog, 10-bits, voltage-measuring inputs
- 24 opto-isolated inputs at 5-24 VDC
- Encoder input: standard X1, X2, X4 quadrature differential (uses 3 inputs), Index capture
- JDISP port drives LCD display
- 2 Loop Error Timers: User configurable loop timers allow outputs to be modified if communication with IODEVICE is interrupted
- Device Mapping Table: Allows user to choose which inputs are returned through MACRO real-time registers
- Operates on +8 to +24 VDC @ 8.6W power supply
- SC connectors for fiber MACRO interface (option)
- RJ/45 connectors for wired MACRO interface (option)





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