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 Accessories

Delta Tau Data Systems announces a broadened family of accessory products to allow its PMAC family of motion controllers to interface to an even wider variety of feedback devices. Without accessories, PMAC can accept feedback from digital or analog quadrature encoders, single ended or differential, at count rates of up to 20 MHz, with automatic timer-based "1/T" velocity and sub-count position estimation. A single PMAC can accept 4 or 8 quadrature encoders; with a companion Accessory 24 (ACC-24) board, it can accept 12 or 16 quadrature encoders.

The Accessory 8D Option 6 (ACC-8D Opt 6) encoder isolator board provides optical isolation for up to 4 3-channel quadrature encoders. It is recommended for systems with over 10m (30') distance from encoders to the controller in a high-noise environment. It can also be used with controllers other than PMAC. One ACC-8D Opt 6 may be used for every 4 channels on PMAC or its ACC-24.

The ACC-8D Opt 7 resolver-to-digital converter board processes the signals of up to 4 resolvers with 12-bit resolution. It provides absolute power-on position, sent serially through a multiplexed port, for both single resolvers, and for double and triple geared resolver systems. It also provides real-time quadrature data for ongoing position information. Absolute position may be read periodically as a check against the quadrature count. Multiple ACC-8D Opt 7 boards may be connected to a single PMAC; the primary resolver in each set requires a corresponding encoder channel on PMAC or its ACC-24.

The ACC-8D Opt 8 analog encoder interpolator board provides 128 or 256 counts per line of an analog (sine/cosine or similar) quadrature encoder. It provides a hybrid digital-quadrature/parallel data format that permits very high speeds (up to 250,000 lines per second, or 32 million counts per second) without a very large number of data lines. One ACC-8D Opt 8 may be used for every 2 channels on PMAC or its ACC-24.

The ACC-8D Opt 9 Yaskawa™ absolute encoder interface board provides both absolute multi-turn position on power-up and ongoing quadrature position data for up to 4 Yaskawa absolute encoders. One ACC-8D Opt 9 may be used for every 4 channels on PMAC or its ACC-24.

The ACC-14 parallel I/O expansion card can accept parallel binary-data feedback from 2 devices of up to 24 bits each, or 1 device of up to 48 bits. Devices that can be used with this accessory include absolute encoders, laser interferometers, and any other sensor that provides a parallel binary data format. Up to 6 ACC-14s may be connected to 1 PMAC.

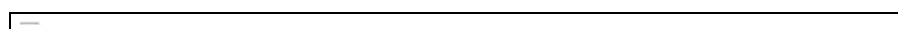
The ACC-28 analog-to-digital converter board provides 4 channels of optically isolated analog inputs with 12- to 15-bit resolution. These can be used for potentiometer, demodulated LVDT or RVDT, and other analog feedback. One ACC-28 may be used for every 4 channels of machine interface on PMAC or its ACC-24.

The ACC-29 magnetostrictive linear displacement transducer (MLDT) interface board provides external excitation and timer measurement circuits for 4 or 8 MLDT sensors, such as Temposonics™. The 30 MHz timers provide 0.095 mm (0.00375 in) resolution without "recirculation" averaging.

The ACC-36 analog-to-digital converter board provides 8 or 16 channels of analog inputs with 12-bit resolution. Up to 24 ACC-36 boards may be connected to 1 PMAC, but only those on 1 ACC-36 can be used for servo feedback.

The ACC-39 encoder interface board provides a single channel of basic quadrature encoder feedback in an inexpensive package. It is particularly well suited for handwheel encoders. Technological advancements in power electronics and control algorithms are providing the opportunity to re-think how servo amplifiers are best designed. Delta Tau is taking advantage of these advances to provide a revolutionary new family of amplifiers to extend the state of the art in servo control. These drives use highly integrated smart power blocks and sophisticated PMAC digital control routines to achieve unprecedented servo performance from permanent-magnet brushless and AC induction motors.

[PMAC®](#), [MACRO-Ring®](#), [New Ideas in Motion®](#) and others ...
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