

## **MotionOne - bringing motion to automation**

The MotionOne modular automation component by LTI offers a wide variety of solutions for machine automation.

Regardless of whether you are looking for scalable HMI Panel solutions, or want complex motion automation, require accurate and dynamic drive technology, and need everything to be designed to the very latest safety requirements (EN 13849) and to the latest market specifications in standard programming - in the LTI automation system you will find all five of these areas of expertise rolled into a single solution.

Stationary operator devices with touch display units in sizes from 8.4" to 15", DVI interface and 16 digital inputs on the panel for detached operation with no extra wiring offer space for demanding visualisation tasks. Some of mobile HMIs with display units, ranging in size from 3.4" to 6.5", are already equipped with OLED displays. In addition to a standard Ethernet connection, integrated confirmation and emergency stop buttons ensure ease of use. A 1.5 m drop resistance ensures a high level of availability.

The ControlOne CPU control system with computing power 400 MHz Power PC up to 1.1 GHz Atom is distinctive for its maintenance-free, fanless operation, along with comprehensive connectivity.

The available interfaces are Ethernet, EtherCAT, CANopen, PROFIBUS, RS232, USB and DVI.

The program and data memory is provided by a replaceable CF card. To expand the system I/O modules can be plugged directly into the CPU, or operated as stand-alone solutions via a bus coupler.

The range of functions available on the COconnect expansion module includes digital input and output components designed to IEC 61131-2, with a granularity of 8 and 16 terminals. Analogue modules to analyse differential and unipolar signals at a resolution of 14 bits have been enhanced to include special temperature analyses for type J, K, L and PT100 thermocouples. An expansion module including a position sensor with a latch function for TTL encoders completes the range. Of course all connections are designed as pluggable terminals. Likewise, LTI's tried and tested drive and safety technology has been incorporated into the MotionOne automation system. Interfacing problems now belong to the past, because connection via EtherCAT or CANopen is already in place and is embedded in the system by means of device descriptions. Movement functions are in the form of PLCopen-compatible function blocks, so that no specialist knowledge is required in order to guide the drive's movements. In addition to the drive system, there is also a flexible range of motors.

This includes everything from a standard servomotor with a power range from 0.09 to 60 Nm and 3000 to 9000 rpm, through to a linear motor from 30 to 5850 N - everything required for servo technology.

The MotionCenter toolframe, which is based on the CoDeSys market standard, combines the development environment for configuring and parametrizing the control system, along with the editor used to create Java-based visualisation applications. A comprehensive library of widgets to create attractive visuals and central configuration of symbol files makes the work easier.

MotionOne - comprehensive automation from a single supplier.



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