

PLC CONTROLLER

512 I/Os with expansion modules

Unitronics' Vision controller series has another member—the Vision430. The 4,3-inch color touchscreen and five function keys are housed in a flat fascia with an IP66/IP65/NEMA4X rating.



*The controller supports CANopen
(Photo: Unitronics)*

THE ONBOARD I/O CONFIGURATION CAN INCLUDE digital, high-speed, and analog I/Os, including PT100/thermocouple and weight/pressure measurement. Expansion modules enable local and remote I/Os at distances up to 1000 m, making the controller a solution for applications with up to 512 I/Os.

Communication options include industrial protocols such as J1939, CANopen, Modbus, DF1 slave, BACnet, and more. In addition, the 'Protocol' utility allows the controller to communicate via many ASCII protocol. The unit can be directly accessed via a mini-USB programming port, and remotely accessed using GPRS/GSM/CDMA and other IP networks for data acquisition and program download. Supervisors can be notified of critical information via e-mail and SMS, enabling real-time remote management.

Power features include 24 auto-tuned PID loops to control temperature, level, and pressure. Time-based and immediate interrupt support make the controller suitable for 'rapid response' applications such as packaging machines. The controller is a fit for food and pharmaceutical industries.

Built-in recipe capabilities are supported by data tables, which store the parameters required to control a specific process. Data tables also enable the controller to store data logs to a micro-SD card. The micro-SD card also stores application back-ups and allows complete PLC cloning.

The machine operator communicates directly with the application via the resistive analog touchscreen—or remotely, via the remote operator utility. The touchscreen displays data, color trend graphs, and alarm screens. Display options include 1024 user-designed screens supported by 12 MiB of memory for images and 1 MiB for fonts. Vision430 is backed by Unitronics' standard policy of customer care, including free software and utilities, plus free personalized technical support.