



Ai-11 intelligent networkable computer controller

- Internally store up to 150 sets of moulding parameters – timings, quantity, pressure, speed, position, metering, mould thickness, mould title, selection criteria, resin temperature etc.
 - Detailed on-line operation instructions.
 - Multi-tiered passwords for fine-grained access control to parameters and settings.
 - Parameters and settings are verified before acceptance, and the user is prompted for all errors. All parameter/setting changes can be stored in a database as an audit trail for records-keeping through the iChen System.
 - State-of-the-art SMT technology is used to manufacture all electronic boards, resulting in unsurpassed reliability.
 - High-speed 32-bit CPU.
 - Automatic setting of mould adjustments.
 - Proportional nozzle heater control is standard. Supports optional nozzle thermocouple.
 - Up to 8 zones of high-precision PID temperature control with an operational range of 30-500 °C.
 - Protection against cold-starts, blocked nozzle and leakage, with automatic keep-warm settings.
 - User-settable target temperature ranges and automatic broken thermocouple detection.
 - 10-stage injection speed, pressure and holding.
 - 5-stage recovery speed, pressure and back-pressure.
 - Supports up to 3 sets of pneumatic air-blows and 5 sets of core-pulls.
 - High-precision optical encoders used for clamping, injection and ejector. Potentiometers are optional.
 - Alarms are stored internally to assist in production tuning and machine maintenance.
 - Production quantity can be user-entered or downloaded as part of a Production Schedule via the iChen System. Machine stops automatically when quantity is reached.
 - User-defined lubricating intervals with low-oil alarms.
 - Graphical display of machine operation for easy monitoring.
 - Concise diagram of the time consumed by different stages to assist in tuning and reducing cycle time.
 - Graphs of injection speed and pressure, with standard stored curves for comparison. Statistics of injection end-position.
 - On-line monitoring of the real-time status of all PLC steps, I/O points, timers and counters.
 - Monitors up to 80 outputs, 80 inputs, 100 times and 20 counters.
 - Store new sets of moulding parameters internally, or replace/clear existing stored parameter sets. Retrieve stored parameter sets for repeat production runs.
 - Intelligent diagnostics with relevant operational instructions.
 - Supports up to 60 auxilliary temperature control zones (e.g. for hot-runner control).