# eLOGIC
PROCESS AUTOMATION SYSTEMS

# eCUBE Chiller Package

Remember the good old days when chillers were simple pieces of equipment that just reliably handled their refrigerated tasks. Processing requirements and technological advancements have changed all that. Modern chillers and chiller related processing tasks can require constant monitoring and intervention.

What if a local controller was available to simplify your chiller related processing tasks? You know, a controller that would allow you to quickly configure the process, manage the process for you, and let you know when a situation occurs that needs your attention.

Our eCUBE Chiller package may be the solution you're looking for. The package can be configured to control "Plate & Frame", "Shell & Tube", or "Falling Film" chillers. This small prewired control package provides:

☆ An inexpensive reliable solution...
☆ A comprehensive local user-interface...
☆ Local set-point modifications...
☆ Standalone complete chiller control...
☆ VFD or standard ON / OFF pump control...
☆ Local alarm notifications...
☆ Analog signal based monitoring / control...
☆ Inlet & Outlet temperature monitoring...
☆ Full interface capabilities to communicate with a central system...
☆ Remote master / slave chiller control from a central control system...
☆ Configuration capabilities to handle the specifications of all major chiller manufacturers...
☆ Capability to detect a central control system failure and temporarily re-take control of the local chiller...

| CHILLER # 1 | |
| --- | --- |
| INLET Temperature | 36F |
| OUTLET Temperature | 45F |
| PUMP Status | ON |
| PUMP Pressure | 85Psi |
| SURGE Level | 25% |

## Package Features

**NEMA 4X Case**
 - Indoor Use Only
**User Interface**
 - 128x64 Pixel Backlit LCD
 - 18 Membrane Keys
**Program Language Support**
 - Std C; Assembler
**Communication Ports**
 - Standard RS232 9-Pin
 - RS485 Network (128K Baud)
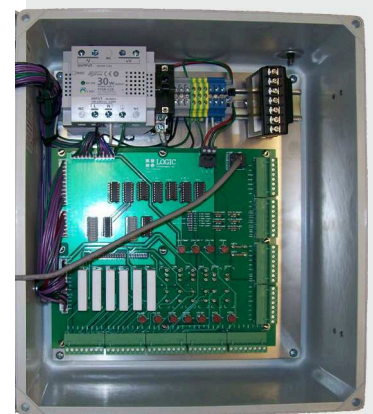**Input / Output Signal Support**
 - Signal Conditioning Board
   (All STD Digital I/O Levels)
 - 10 Digital Inputs
 - 3 Hi-Speed Inputs (14 kHz sink)
 - 3 Form C Relay Outputs
 - 2 Form A Relay Outputs
 - 2 Digital Outputs
 - 4 Analog Input Points
 - 4 Analog Output Points
**CPU / Memory**
 - Atmel ATMEGA128 CPU
 - 128k Memory (10K OS)
**Package Support**
 - Digital or Analog Pressures
 - Digital or Analog Temperatures
 - Stand-alone Operation Mode
 - Server Sequenced Mode
 - Signal Server Slave Mode

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