

Introducing

A New Era in Process Control, Monitoring & Data Logging



THE NEW **CHAMP**
PROCESS CONTROLLER

*Buy a custom
programmed,
pre-assembled CHAMP
Process Controller, in
a fraction of the time
at a fraction of the cost.*





THE REVOLUTION BEGINS!

Q: How many months, people, meetings and money did it take to order your last process controller?

A: Too many and too much.

Before CHAMP, buying a process controller was a long, complex process. In many cases, end users could not complete the process without outside contractors, systems integrators, programmers and installers. Not surprisingly, costs reflected this cumbersome process.

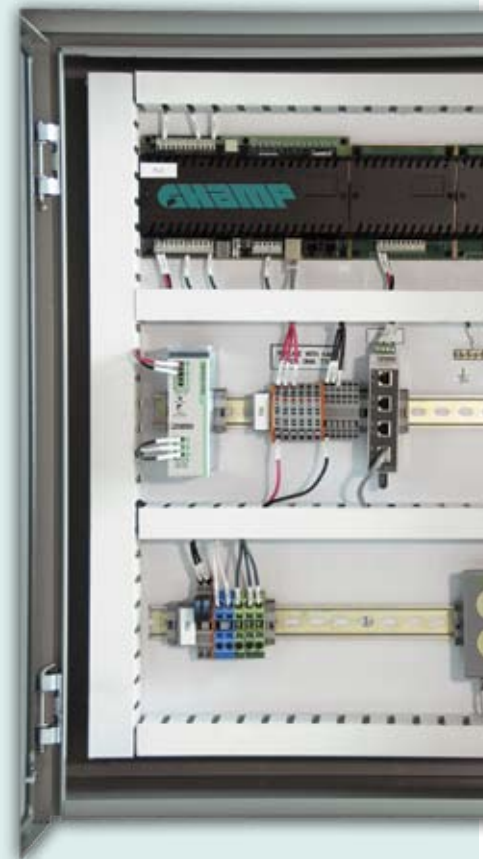
As a result, process controllers are being under utilized in most environments. CHAMP changes all that!

WHAT IS CHAMP?

CHAMP is a Process Logic Controller that can be used in any application to control or monitor processes and log data.

Its uniqueness is not in what it does, but in how you buy it:

1. Simply call Controls West and describe your process and the intended controller application.
2. Quotes require between 24-48 hours.
3. We will be your single point of contact throughout the entire process.
4. Normal delivery turnaround is a few weeks, not months, fully programmed, pre-assembled and mounted in a cabinet with power supply and terminal blocks. Installation is limited to bolting the pre-assembled cabinet to the wall and following our simple plug-in instructions.
5. Our unique distribution model allows us to price the CHAMP at a fraction of comparable process controllers.





CHAMP IS FLEXIBLE

CHAMP's delivery turnaround and cost advantages don't limit its versatility. As a process controller, it can automate the control, monitoring or data logging of virtually any process. CHAMP is also reprogrammable at

any time to suit any purpose, and it's expandable (can monitor and control literally hundreds of process signals. And because of its low cost, significantly more processes become candidates for the power, control and convenience CHAMP provides. Optional Ethernet connectivity is also available (Cat 5 or fiber optic).

CHAMP CAN BE WIRELESS

Incorporates spread spectrum technology and is available in 900 MHz and 2.4 GHz versions with true high speed data throughput at 115.2 kbps.

CHAMP IS RUGGED

We invite you to compare CHAMP's durability and quality to any process controller at any price. The unit is encased in steel and its circuit boards

are conformally coated to stand up to corrosive environments (ocean, chemical, high/low temperature).

CHAMP IS OPEN

Our open system architecture and communication protocols allow CHAMP to seamlessly interface with virtually all automation devices and computer monitoring systems (including Modbus RTU/TCP/ASCII, DNP3 and AB DF1). The CHAMP is supported by popular host software packages from companies such as Citect, ClearSCADA and many others.

CHAMP SMASHES THE OLD PRICING MODEL

Customers report CHAMP is a fraction of the cost of process controllers they used to buy. Compare similar systems that are custom programmed, pre-assembled and cabinet-mounted, with power supply and terminal blocks—then compare for yourself.

In addition to CHAMP, Controls West also provides measurement solutions, including revenue grade flow meters and a variety of level, pressure, temperature and analytical instrumentation.



VISION OPERATOR INTERFACE FEATURES:

- 4 line by 20 character LCD display
- Programmable membrane keypad
- Power-saving mode
- Universal Modbus master
- Port-powered



www.ControlsWest.com

OPTIONS

ISOLATED ANALOG INPUT MODULE

- 8 isolated input channels
- Optical isolation for high reliability
- Integrated transient protection
- True 12 bit performance
- User selectable 20% zero offset

THERMOCOUPLE INPUT MODULE

- 8 type J, K, T, E or ± 80 mV inputs
- Optical isolation for high reliability
- Integrated transient protection
- Minimal self-heating
- Multi-range

HIGH LEVEL DIGITAL INPUT MODULE

- 8 digital inputs
- Reliable optical isolation
- Isolated in groups of 4 for ease of wiring
- Very low power requirements
- Universal AC or DC

ANALOG OUTPUT MODULE

- 4 isolated analog outputs
- Selectable voltage & current modes
- 5V & 10V selectable voltage modes
- Low power
- Class 1, Division 2 for use in hazardous locations

MULTI-RUN GAS FLOW

- Provides AGA-3 orifice plate, V-Cone, and AGA-7 turbine meter flow measurement with AGA-8 or NX-19 gas density calculations
- Meets API 21.1 Custody Transfer requirements
- Provides 35 days of hourly and daily averages
- Complete flow computer, ready for configuration and use

DIGITAL INPUT MODULE

- High density, 32 digital inputs
- 12 to 120 volts
- Low power
- Class 1, Division 2 for use in hazardous locations

DIGITAL OUTPUT MODULE

- High density, 32 digital outputs
- Sinking output design
- Low power
- Class 1, Division 2 for use in hazardous locations

HART INTERFACE MODULE

- Compliant with HART physical layers specifications
- Configurable as primary or secondary master
- Unloads HART protocol details from application software
- Enables simultaneous communications with up to 4 HART devices without sacrificing a serial port.

SCADA WAVE WIRELESS DATA TRANSCEIVER (5908)

- Incorporates Freewave Radio Technology
- Available in 900 MHz and 2.4 GHz versions
- High speed (115.2 kbps true data throughput)

MDS BASE RADIO TRANSCEIVER

- Incorporates MDS Trans-NET Radio technology
- Available in 900 MHz
- High speed (115.2 kbps true data throughput)



www.ControlsWest.com

HOME OFFICE

Serving Phoenix, Northern Arizona and Clark County Nevada

509 South 48th Street, Suite #105, Tempe, AZ 85281

PHONE (480) 894-5451 FAX (480) 894-6267

TUCSON OFFICE

Serving Southern Arizona

2455 E. Speedway Suite #203, Tucson, AZ 85719

PHONE (520) 297-3838 FAX (520) 297-3888

ALBUQUERQUE OFFICE

Serving New Mexico and West Texas

10301 Second Street NW, Albuquerque, NM 87114

PHONE (505) 899-5054 FAX (505) 899-5056