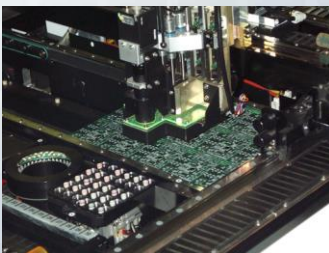




Founded in 1981, Infitec, Inc. is a leading designer and manufacturer of innovative Industrial and Commercial Controls and systems. Our company is family-owned with Corporate Offices, Technology Development Center, and Manufacturing facilities in Syracuse, New York.

Our Facility utilizes the most advanced techniques and processes



Latest technology in SMD placement equipment

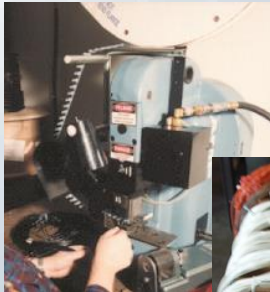


PC driven Test Equipment provides accurate, efficient programming, and testing of high volume orders



Encapsulants such as Urethane and Silicone are used for protection from the elements shown being applied by precision Meter-Mix Dispensing equipment

Wire processing from simple value added accessories to complex harnesses



Cutting, stripping, terminating and bundling are all services available. We work with ALL of the major brands of terminals and most any type of wire from single conductor equipment wire to flat ribbon cable, co-axial cable, multi-pair cable, etc.



Standard Products

Offerings include an extensive line of Industry Standard devices such as:

- Time Delay Relays and modules
- Flashers
- D.C. Speed Controls
- AC Phase Controls and Dimmers
- Liquid Level Controls

Value added assembly of wiring and accessories also available.



Custom Products

While Standard Products helped build our foundation, it is our specialized or “Custom” designs that set us apart from the rest.

Design programs are available in three levels

- **Shared NRE** where Infitec, Inc. agrees to develop new technology exclusively for the customer. IP remains the property of Infitec, Inc. and the customer pays a modest amount (usually 10-30% of actual costs) and issues contingent production order.
- **Full NRE** same as above except customer receives full set of deliverables to re-produce product at alternate facility. IP remains the property of Infitec, Inc. and the customer pays all development costs and issues contingent production order.
- **Contract Design Services** where the customer pays all development costs and receives all IP including design files, source code, etc. and has no obligation to produce annual quantities of the product at Infitec, Inc.

Following are some examples of recent custom designs

Custom Design Case: Multi-Fuel Biomass Heating Controller



Challenge: Control Startup, running and shutdown of (outdoor) wood fired hot water boiler.

Features:

- 64 x 128 pixel Graphics LCD/ Green backlight for annunciation of all settings and status
- (11) Inputs for Tactile Switches (user input)
- (2) RTD Temperature Probe Inputs
- 4-20 mA Process Control Output
- (3) Limit Switch Inputs
- (6) Solid State Outputs rated 3 Amperes each
- (2) Onboard Trim pots for fine tuning

Controls all machine functions including temperature regulation based on thermostat and safety limits.

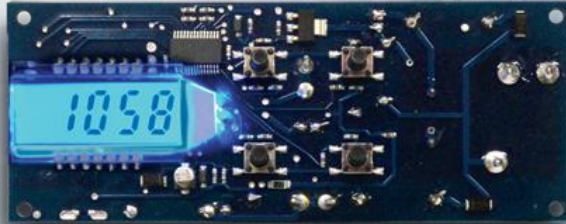
Bar graph with shaded and solid bars indicating set point vs. actual (aka process vs. set variables)

Password entry using Digit/ Select methodology

Menu using highlight selection technique with + (expand) & - (contract) cascading menus



Custom Design Case: Industrial Paint Mixer Control



Challenge: Control Startup, running and shutdown of Industrial Paint Mixer.

Features:

- "Fixed" LCD with Blue backlight (6 numeric digits + colon, "M" and "h" icons)
- (4) Onboard Tactile Switches (user input)
- (1) Door Switch Input
- (1) High Power Electromechanical Relay Output
- Stores Total Cycle count in Non-volatile memory
- Very low cost design

Controls machine operation including run time (indicates remaining time in mm:ss or h:mm format). Monitors Door Safety interlock to force shutdown if door is opened mid cycle as well as displaying total # of cycles run whenever the machine is idle. Also employs Test Vector for factory "burn-in" of assembled machines prior to shipment.

Custom Design Case: Residential Wood Pellet Heating Appliance Control



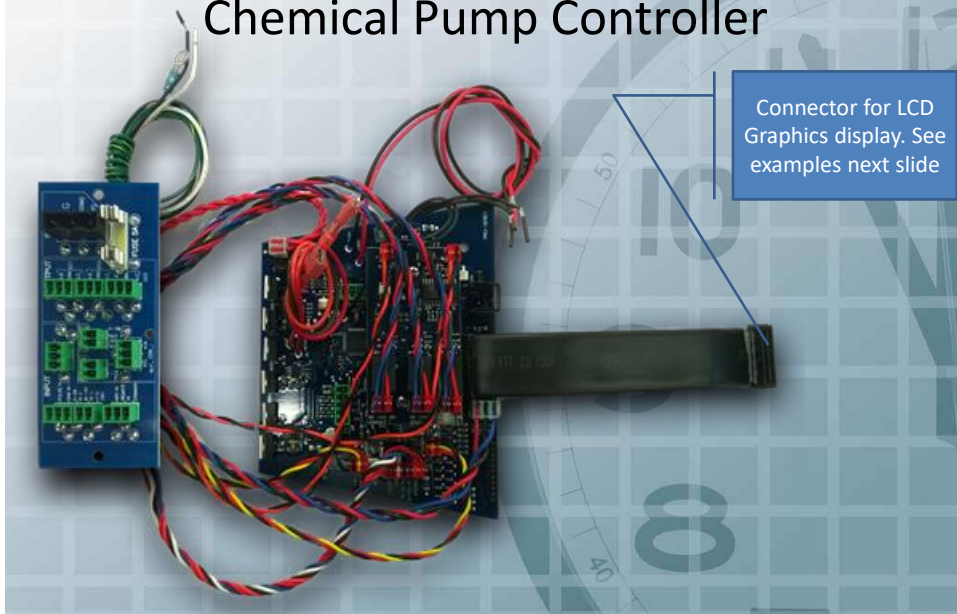
Challenge: Control startup, operation and shutdown of Pellet burning residential heat appliance

Features:

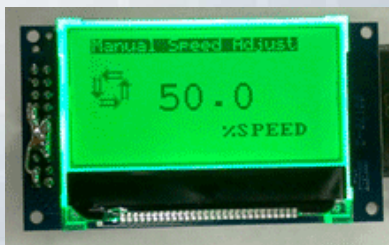
- LED indicators to annunciate status of Igniter, Heat Level and Convection Fan
- (3) Onboard Tactile Switches (user input)
- (1) Vacuum Switch Input
- (1) Hopper Switch Input
- (4) Solid State Outputs rated 1-3 Amperes each
- Custom mounting plate and overlay label included
- Thermostat Input for remote operation
- Very low cost design

Controls stove operation including startup, normal run and Shutdown. Monitors vacuum & hopper switches to detect faults. Fault timers determine when to invoke a Shutdown sequence based on several factors including duration of fault. Also employs Test Vector for factory testing of assembled machines prior to shipment.

Custom Design Case: Industrial Chemical Pump Controller

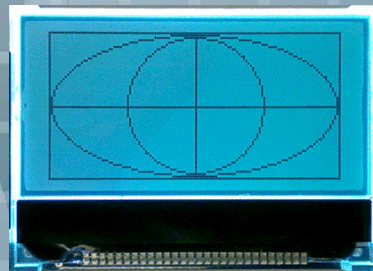


LCD Graphics Display Examples



Animated arrows indicate direction of rotation. Graphics display allows variable font types & sizes to be used on a single display with near infinite possibility for future changes or upgrades.

Graphics display test Program demonstrates various text and graphics that can be produced along with numerous colors that can be achieved programmatically with an RGB backlight.



Custom Design Case: Industrial Chemical Pump Controller (cont.)

Features:

Challenge: Control Industrial Pump using 3-Phase BLDC motor w/ Hall Effect Sensors for commutation and Quadrature Encoder for low speed tracking of speed and position. Includes RS-232 Serial port for communication to PC and other external devices such as cellular Modems and Industrial Networking interfaces. Resident boot loader for field upgradable firmware.

Features:

- 64 x 128 pixel Graphics LCD/ RGB backlight for annunciation of all settings and status
 - (10) Inputs for Tactile Switches (user input)
 - Process Inputs include: 0-10 VDC, 4-20 mA, Frequency, Pulse/Batch
 - Process Control Outputs include: 4-20 mA, Frequency, Dry Contact
 - (4) User assignable Dry Contact Outputs
 - Inputs for Hall Effect Sensors and Quadrature Encoder Inputs
 - Overcurrent sensing, annunciation and shutdown
 - Turnkey design includes all wiring and terminal board- ready for installation
- Controls all machine functions including temperature regulation based on thermostat and safety limits.

Custom Design Case: Industrial Material Handling Controller



Custom Design Case: Industrial Material Handling Controller (cont.)

Challenge: Control Industrial Material Handling Vacuum Loader for raw plastic pellets.

Custom designed control system includes a standard Terminal Box along with "Snap-on" control boxes (2 styles). This system was designed around the customer's existing Aluminum Extruded enclosure. All metals, PC Board assemblies, wiring/ terminations and graphics (includes purchased membrane switch overlay and in-house Pad Printed labeling). This entire system was designed to be backward compatible with 4 generations (approx. 25 years worth) of field installations. This is a UL Listed system.

Features:

- 16x1 Character LCD/ Yellow/ Green backlight for annunciation of all settings and status
- Membrane Switch Overlay includes (3) Tactile Switches (user input) and (1) Ultra bright Red LED for alarm indication.
- (2) Sensor inputs for Dry switch, Capacitive Proximity or Optical level sensors
- (4) User assignable (through internal re-wiring) Solid State 1 Ampere Outputs
- Alternate version includes "Token Ring" style communication module for systems that share a single vacuum unit.
- Turnkey design includes all wiring, mechanical assembly and custom packaging.

Thank you for taking the time to learn about Infitec, Inc. We are always ready to assist with innovative, imaginative solutions to your control system challenges. We look forward to working with your team at every stage of our journey.

It's about time...

