



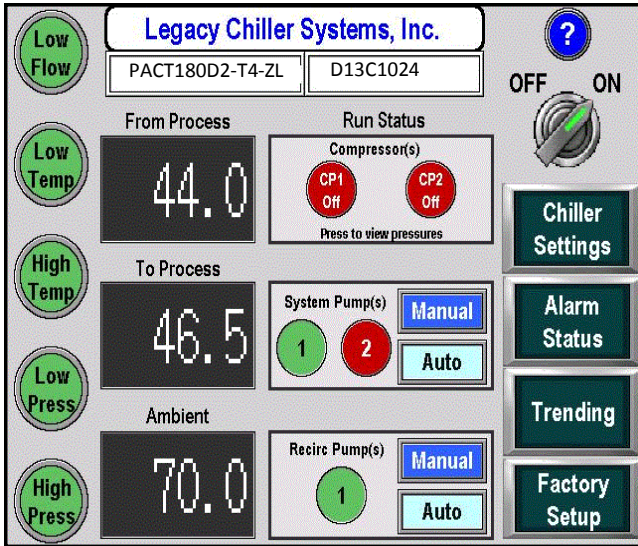
**NEW!** For 2013 Models

## Legacy - Touch Screen - User Interface

**Description:** Harness the power with an Industrial quality Human Machine Interface (HMI) that communicates with the Pentra MicroSmart Programmable Logic Controller (PLC).

Touch Screen Key Chiller Control Features:

- **USB update slot for IN-PLACE HMI and PLC software updates available from [www.legacychillers.com](http://www.legacychillers.com) website.**
- CE, UL Listed
- Built in Web Server
- SD slot for optional data storage
- Ultra bright display screen with auto screen saver
- Real-time Pressure and Temperature readings
- Real-Time SuperHeat, Subcooling, Chiller Supply and Chiller Return temperature graphical trending
- Automatic COMPRESSOR Lag/Lead with FIVE operational modes
- Automatic SYSTEM PUMP Lag/Lead with FIVE operational modes
- Factory configured for ALL legacy available chiller options.



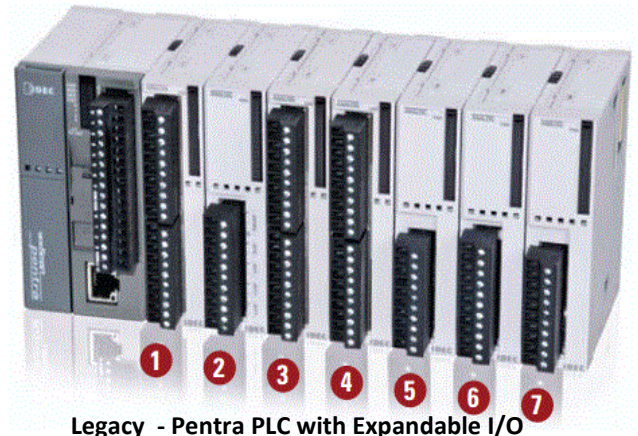
Legacy Touch Screen Interface - Home Screen

## Legacy - Pentra Microsmart, Programmable Logic Controller (PLC)

**Description:** Best in class PLC now available for all legacy production chiller models. Factory installed and programmed into your next Legacy Process Chiller. The Pentra PLC will seamlessly interface with our new HMI touch screen.

Pentra Key Features:

- CE, UL Listed
- Highly accurate and fast performance
- Embedded Ethernet Port
- Modbus TCP, RTU and ASCII for integration with most Building Automation Systems (BAS)
- Optional BacNet and LONWORKS communication protocols via third party bridge hardware
- Expandable I/O, ideal for custom chiller control projects.
- I/O status indicators on Pentra and I/O modules.
- Optional service alerts. Get an email or phone call about potential maintenance or service issues.



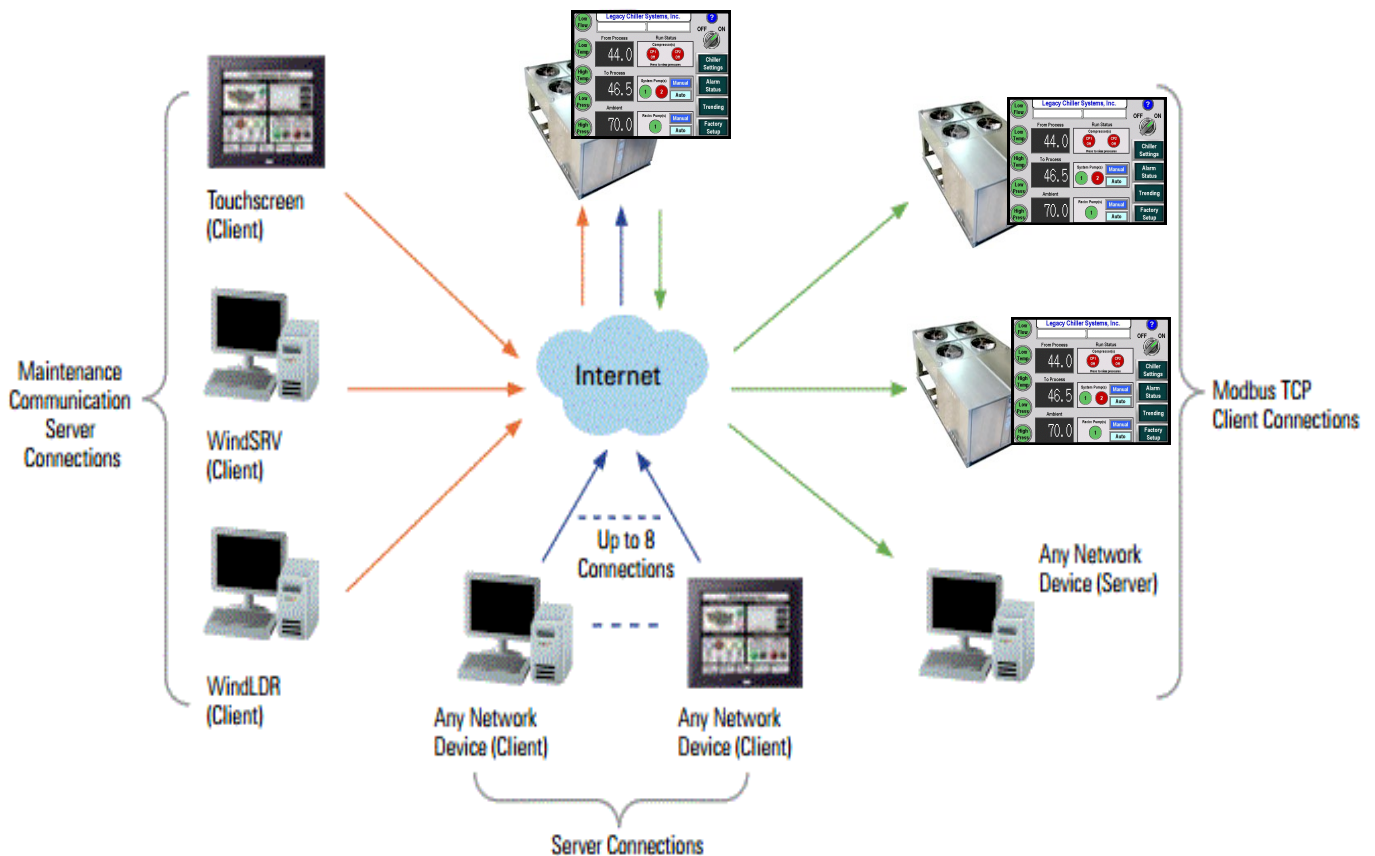
Legacy - Pentra PLC with Expandable I/O

## Legacy - Pentra Microsmart, Programmable Logic Controller (PLC)

NOW offering extended connectivity options.

### Up to 14 Simultaneous Connections

Using Maintenance Communication Server connections, up to 3 Client devices, such as an OI touchscreen, WindLDR software and SCADA OPC server such as WindSRV (KepServerEx), can simultaneously communicate with your MicroSmart Pentra PLC. Using Server Connections, an additional 8 connections can be established and each connection can be defined as Maintenance, User Communication or Modbus TCP server protocol. On top of that, another 3 connections can be configured as Modbus TCP client protocol, with a maximum of 255 requests. Each request can be for different slave devices with different IP addresses on the network.



**IMPORTANT CONSIDERATION:** Legacy Chiller Systems offers an optional Level 3 managed switch allowing MODBUS connectivity to the Pentra MicroSmart PLC controller. In most cases, end users firewall settings will need to be updated to allow remote WAN connectivity. Legacy can provide fee based network support for special Level 3 switch configuration.