Plant Energy Management Communication

SOLUTIONS

Leverage your existing automation and power systems to begin saving energy more effectively, and using it more intelligently. Whether your energy costs are from water, air, gas, electricity or steam, ProSoft Technology offers a number of solutions to help you manage them in a way that brings meaningful value to your business – by lowering production costs and optimizing profits.

ProSoft ®
TECHNOLOGY

MONITOR ▶ **ANALYZE** ▶ **OPTIMIZE**
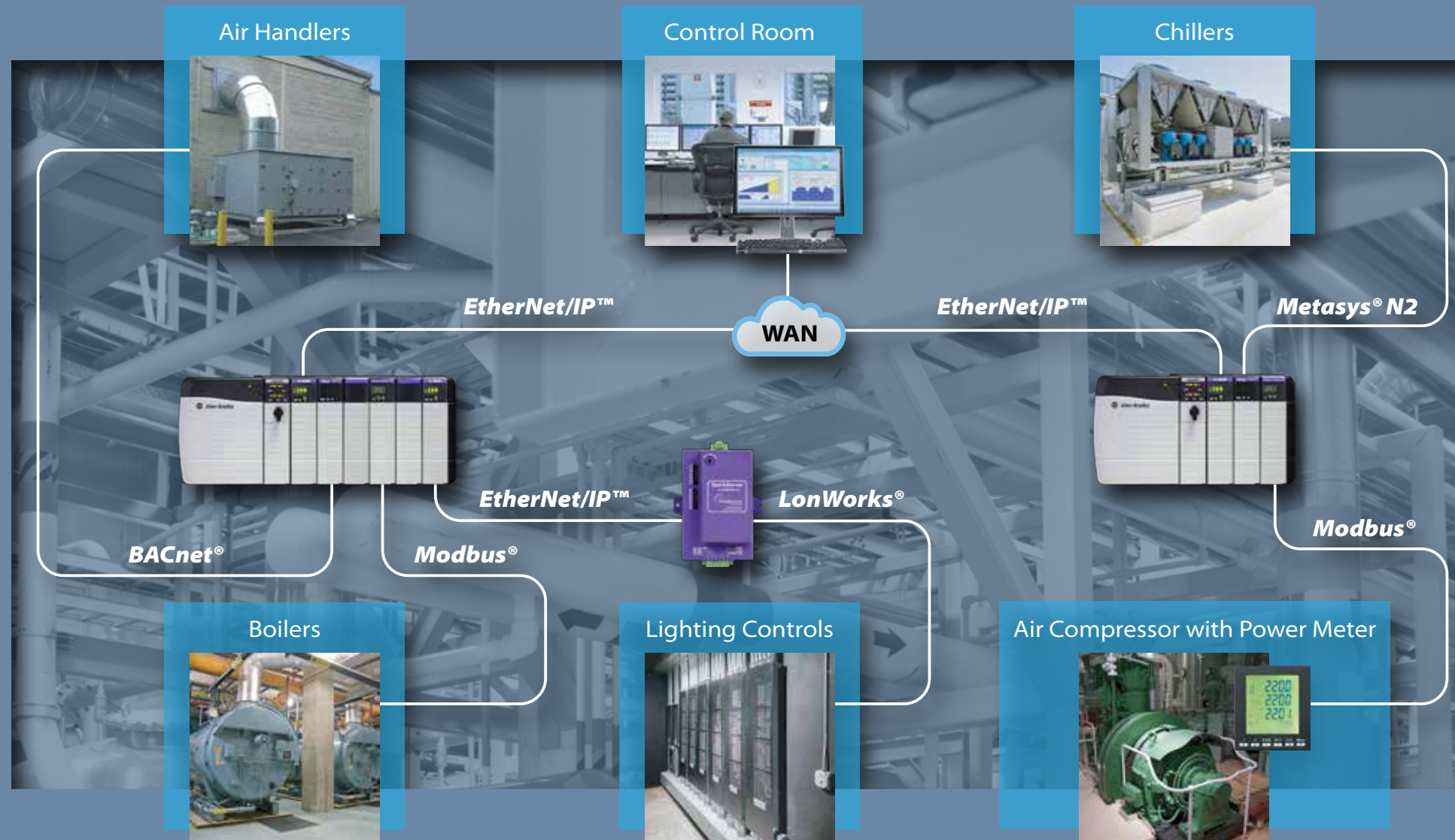
Why Focus on Energy Costs?

- Energy costs such as electricity, compressed air, natural gas, water and steam are no longer considered as overhead
- To meet corporate sustainability objectives
- To properly allocate energy costs by department, process or facility
- Typical savings when energy costs are optimized are 5-15%
- Lighting accounts for 20% to 25% of all electricity consumed in the United States
- 10% of all electricity is consumed to create compressed air
- 30% of all compressed air generated is never used due to waste and leakage
- At 415 psi, a 1/8" hole will cost $5,800 per year in lost steam

Effective Energy Management

- Collect information about what is actually happening, when it is happening
- Plant-wide overview considering production processes and points of use

What to Measure

- Generators
- Plant substations
- Furnaces/ovens
- Motors
- Air compressors
- Chillers
- Boilers
- HVAC system

Air Handlers

Control Room

Chillers

EtherNet/IP™

WAN

EtherNet/IP™

Metasys® N2

EtherNet/IP™

LonWorks®

Modbus®

BACnet®

Modbus®

Boilers

Lighting Controls

Air Compressor with Power Meter

How Can ProSoft Help You Save on Your Energy Costs?

These systems and devices often use protocols such as BACnet®, LonWorks®, Johnson Controls Metasys® or Modbus®. Our PLC in-chassis modules or gateways bring that data into the PLC, where you can monitor and coordinate the control of your energy systems with your production / manufacturing needs.

Collecting all this data in the PLC makes it easier to use software tools to analyze your energy usage. The PLCs can then be programmed to coordinate these systems and devices to reduce your energy consumption.

Protocol Interfaces

BACnet®
Designed for Rockwell Automation's ControlLogix® platform and as stand-alone gateways, these modules enable the exchange of information between BACnet® Master devices such as Trane® BCU and Alerton® Controllers or BACnet slave devices such as VSD, lighting controls, and AC controls.

LonWorks®
Available for Rockwell Automation® ControlLogix®, and as a stand-alone gateway.

Modbus®/Modbus® TCP
ProSoft Technology® was the first company to offer an in-chassis Modbus® interface for Rockwell Automation® PLCs. We now have in-chassis solutions for Schneider Electric's Quantum™ platform as well as Rockwell Automation's ControlLogix®, CompactLogix™, SLC™ and PLC platforms. We have a full line of industrial Modbus® gateways that allow you to pass data from devices on networks that use over 30 different protocols.

Johnson Controls Metasys®
Available for most Rockwell Automation® platforms including ControlLogix®, CompactLogix™, and SLC®, and as a stand-alone gateway.

Wireless

For those hard-to-reach or remote areas, ProSoft Technology® offers a line of wireless solutions.

For more, including links to information on specific products, please visit **psft.com/BCR**.

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	Rockwell Automation® CompactLogix®™	Rockwell Automation® ControlLogix®	Stand-Alone Gateways
Protocols			
BACnet®/IP		◆	◆
BACnet® MS/TP		◆	◆
Johnson Controls Metasys®		◆	◆
LonWorks®		◆	◆
Modbus®	◆	◆	◆
Modbus® TCP/IP	◆	◆	◆

	Device Connectivity	Frequency Band(s)	Radio Modes	Maximum Outdoor Range	Transmit Power
Wireless					
802.11n RLX2-IHNF	Serial/Ethernet	2.4 & 5 GHz	Single access point, repeater & bridge	5 mi/8 km	Up to 50mW
802.11n RLX2-IHNF-W(C)	Serial/Ethernet	2.4 & 5 GHz	Watertight single access point, repeater & bridge	5 mi/8 km	Up to 50mW
802.11bg RLX2-IHG	Serial/Ethernet	2.4 GHz	Single access point, repeater & bridge	20 mi/30 km	Up to 250mW
802.11a RLX2-IHA	Serial/Ethernet	5 GHz	Single access point, repeater & bridge	5 mi/8 km	Up to 250mW
802.11abg RLX2-IHW	Serial/Ethernet	2.4 & 5 GHz	Single access point, repeater & bridge	5 mi/8 km	Up to 50mW
Wireless I/O					

For more information on ProSoft Technology's Wireless I/O, visit **psft.com/BCS**

Get the
ProSoft Technology®
Automation Advantage

Reliability

At ProSoft Technology® we don't just sell products. We sell tested, field-proven solutions. We provide products that are developed with end-users in mind. For more than 25 years, ProSoft has been known for our high-quality, reliable solutions.

Tutorial, Educational & Product Videos

Our worldwide Technical Support team is available to assist you with set-up and support throughout the lifecycle of your product. We also have product videos available on our website at **psft.com/BB7**.

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