Compressed Air Controls: "Snapshot" Comparison



	Pneu-Lo	gic (OR)	Ва	y Controls (MI)		IZ Systems (GA)		Airleader (GER)		Energair (UK)
Methodology & Capabilities	pressure rate o compressor po (enables a holi approach to op	les include pressure, of change, ower, and <u>air flow</u> stic data-driven otimize supply in em-wide demand)		nary variables include pressure I pressure rate of change.	•	Primary variables include pressure and pressure rate of change.	•	Primary variables include pressure and pressure rate of change.	·	Primary variables include pressure and pressure rate of change.
	 Ability to moni additional inpu compressors. Staging tables indefinite num 	itor and incorporate its to manage organize an ber of compressor to meet any given air	• Abi	lity to measure other variables.	•	Ability to measure other variables.		Ability to measure other variables.		Ability to measure other variables. Table Technology allows for configuration and inter-utilization of up to 6 separate compressor management and control strategies.
	 Capable of main pressure zones Unlimited # of 				•	Capable of managing multiple pressure zones.		Limited to 32 compressors.	•	Capable of managing up to 3 zones.
Control Technology	 Interface with controllers via network proto Start function i 	existing compressor remote contacts or col. is a system building tegrates the starting	 Net and 	place existing compressor trollers with Bay equipment. work individual compressors I manage supply side based on ssure.	• •	Interface with existing compressor controllers. Network individual compressors and manage supply side based on pressure.	•	Airleader equipment required for each compressor in the system.	•	Interface with existing compressor controllers. Start function is a system building feature that integrates the starting of ancillary equipment.
Reporting	 Pneu-View SCADA server i Downloadable map 		•	View/BayWatch DA server ready	•	IZ Data Acquisition System SCADA server ready	·	Airleader reporting system	•	SCADA server ready
Communications Compatibility	• Modbus RTU, I	ANopen, DeviceNet	• Mo	dbus RTU, CC-Link	•	Modbus TCP	·	Professional bus, Modbus TCP, Win-CC, Ethernet/IP	•	Modbus RTU, Airbus/RS485
Energy Cost Reduction	Average 15-40 achieved as mu		• Ene	ergy savings of 8-15%.	•	Unknown ?	•	Up to 40% savings.	•	Reducing energy costs by 30%. Case studies show up to 46%.
System Cost per Compressor (Est.)	• \$10,200	E	• \$23	5,200	•	\$13,500	•	\$19,600	•	\$16,200

Common Traits:

Ability to control and monitor any type of compressor regardless of make, model, and type

Reduction of plant pressure fluctuations allowing for reduction of system pressure (approximately 5% energy savings per 10 psi reduction).

Report and display critical system parameters in multiple formats for ease of access and management.

Note:

All comparisons are based on available information as of the original publication date; no representation or warranty is made regarding accuracy.

Compressed Air Controls: Vendor Considerations

PNEU LOGIC

	Compressor Control Companies	OEM Controls	Custom Engineered Solutions Specialty Products
Relevant Attributes	 Focused exclusively on Compressed Air Controls, accumulating deep expertise No conflict of interest on new compressor sales and/or service revenue Capable of dealing with multiple brands, models, and compressor types Employ refined and repeatable methodologies with supporting documentation Offer scalable solutions (i.e., adapt to growth and change) 	 OEM's are typically willing/able to control only their own brand of compressors Compressed Air Controls are not a compressor OEM's primary line of business (i.e., controls are a side-line) Representatives are inclined to sell compressors (e.g., more and bigger) versus compressor controls Not all OEM's offer effective control solutions 	 Custom engineered solutions often lack a clear theory of operation Thorough documentation and drawings are typically not provided to end user Custom systems are difficult or impossible to scale Individual project development generally increases project costs
Competitive Examples	 Pneu-Logic Bay Controls IZ Systems Airleader Energair 	 Ingersoll Rand Atlas Copco Kaeser Gardner Denver CompAir 	 Scales Industrial Technologies Rogers Machinery CAM Technologies Air Technologies

Note:

Analysis is not intended to be comprehensive

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