Case Engineering inc · 1401 West Franklin St. · Evansville, Indiana · USA
Telephone · 812·422·2422 Facsimile 812·425·3138 · www.casecontrols.com · sales@casecontrols.com

How to Get a Quotation:

The information needed to provide you with an accurate quotation can be identified in the following three-part document. First is this **Information Form**, followed by the **Base System Worksheet** and the **Common Options Worksheet**. How thorough and accurately you fill out these forms directly affects the accuracy of your quotation. Please call 800-294-7856 with questions.

General Information:

Your Name		Position	
Your Company		Phone Number	
Your Address		Fax Number	
City		Email Address	
State		Zip	

Compressor Make		Motor HP	
Compressor Serial #		Motor FLA	
Number of Stages		Design Pressure	
Design Flow			

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Controller Selection:

Which is your preferred A-B platform?
☐ SLC500 ☐ CompactLogix ☐ ControlLogix ☐ MicroLogix

Which is your preferred communication protocol?
☐ Ethernet (TCP/IP) ☐ Data Highway + ☐ Modbus ☐ Other _____

What type of control system are you replacing?
☐ Electro-Pnuematic ☐ I-R MP3 ☐ I-R CMC ☐ Joy Quad 2000 ☐ Joy Quad III ☐ Bay Vantage ☐ Other _____

If you can determine the type of circuitry used in your main motor starting equipment, please indicate below.

Main Motor Start Circuit:
☐ Hold to Run ☐ Pulse to Start/Stop ☐ Wye-Delta

In some cases we offer a quick ***Retrokit*** that allows the CaseControls system to install inside <u>your</u> enclosure reusing the existing wiring harness?

If available would you like a ***Retrokit***?
☐ Yes ☐ No I want a new enclosure.

Would you like a quotation for instrumentation needed?
☐ Yes ☐ No thanks, I will provide instruments

Would you like a quotation for on-site installation?
☐ Yes ☐ No thanks, I will provide installation

Supervisory Products:

AirMaster is logic that executes redundantly in each local controller in a floating master scheme that manages multiple centrifugal machines for the greatest energy efficiency.
Would you like a quotation for AirMaster Load Sharing?
☐ Yes ☐ No thanks

AirView is a SCADA (Supervisory and Data Acquisition) program designed to run on Rockwell Software's RS-View. This PC based product will supervise up to eight Case Controllers. Would you like a quotation for an AirView SCADA system?

☐ Yes ☐ No thanks

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Base System Worksheet:

This table represents the I/O and devices typically used to control a centrifugal compressor. All of these variables can be monitored by a CaseControls system and user configured for alarm, trip and/or start permissive functionality. Use this table to inventory your machine for the presence of instruments.

Valve Selection:

			Electro-Pneumatic Actuator with I/P	Motor driven actuator	Discrete Solenoid Valve
Inlet Valve	1	Select the type of Inlet valve used on the machine	☐	☐	
Bypass Valve	1	Select the type of By-pass valve used on the machine	☐	☐	☐

Analog Inputs & Devices:

Description	Qty	Details/ Range	Device		Transmitter		Comments
Select proper quantity and range for each device.			Exists	Add	Exists	Add	
System Air Pressure	1	☐ 0-100 psi ☐ 0-200 psi ☐ 0-250 psi ☐ 0-500 psi	☐	☐	☐	☐	For best results, system pressure should be measured between the check and block valves
Discharge Air Pressure	1	☐ 0-100 psi ☐ 0-200 psi ☐ 0-250 psi ☐ 0-500 psi	☐	☐	☐	☐	
Oil Temperature	1	100 ohm platinum RTD	☐	☐	☐	☐	
Discharge Air Temperature	1	100 ohm platinum RTD	☐	☐	☐	☐	
Oil Pressure	1	Pressure transducer 0-50 psi	☐	☐	☐	☐	
Motor Current	1	0 - ?_____ amps	☐	☐	☐	☐	
Pinion Vibrations		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Inlet Temperature		100 ohm platinum RTD's	☐	☐	☐	☐	
Inter-stage Temperatures		100 ohm platinum RTD's	☐	☐	☐	☐	
Inter-stage Pressures		☐ 0-100 psi ☐ 0-200 psi ☐ 0-250 psi ☐ Other	☐	☐	☐	☐	

Note 1: All analog inputs are 4-20 ma current loop transmitter
Note 2: 5th stage instruments are specified on the Common Options Worksheet
Note 3: Cooper Joy TA-X8 Model machines may have up to three oil pressures

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Discrete Inputs & Devices:

Device	Qty	Device		Comments
		Exists	Add	
Seal Air Pressure Switch		☐	☐	
Remote Stop		☐	☐	
Remote Start		☐	☐	
Water Flow Switch		☐	☐	
Air Filter DPS		☐	☐	
Oil Filter DPS		☐	☐	
Oil Level Float Switch		☐	☐	
Hi Condensate		☐	☐	
Hi Motor Temp		☐	☐	
Remote Load/Unload		☐	☐	
Other A		☐	☐	
Other B		☐	☐	
Other C		☐	☐	
Other D		☐	☐	

Discrete Outputs & Devices:

VARIABLE	QTY	DEVICE		COMMENTS
		Exists	Add	
Oil Pump Pre-Lube		☐	☐	
Oil Pump Main (Electric)		☐	☐	
Oil Pump Aux (Electric)		☐	☐	
Compressor Start		☐	☐	
Horn		☐	☐	
Alarm Contact		☐	☐	
Alarm Fault Contact		☐	☐	
Unloaded Indicator		☐	☐	
Condensate Purge		☐	☐	
Cooling Water Solenoid		☐	☐	
Other A		☐	☐	
Other B		☐	☐	

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Common Options Worksheet:

This table lists optional instrumentation points commonly requested for monitoring by the AMP500 system. These are not required for proper control but can be added for monitoring, alarms, trips and/or start permissives. Print and use this table to inventory your machine for the presence of (or your interest in) additional devices for the Air Sentry. This form should be faxed with the completed Info Form and Base System Worksheet for a free quotation.

Analog Inputs & Devices:

Description	Qty	Detail/ Range	Device		Transmitter		Comments
Please select the proper qty and range			Exists	Add	Exists	Add	
5th Stage Vibration		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Bull Gear Vibration		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Motor Winding Temperatures		100 ohm platinum RTD on motor windings	☐	☐	☐	☐	
Motor Bearing Temperatures		100 ohm platinum RTD on motor bearings	☐	☐	☐	☐	
Cooling Water Inlet Temp		100 ohm platinum RTD at cooling water intake	☐	☐	☐	☐	
Cooling Water Inter-stage Temps		100 ohm platinum RTD at cooling water inter-stages	☐	☐	☐	☐	
Cooling Water Exit Temp		100 ohm platinum RTD at cooling water exit	☐	☐	☐	☐	
Water Pressure Inlet		Pressure transducer and transmitter at water intake	☐	☐	☐	☐	
Water Pressure Inter-stage		Pressure transducer and transmitter at inter-stages	☐	☐	☐	☐	
Water Flow		Flow meter at water inlet	☐	☐	☐	☐	
Motor Bearing Vibrations		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Discharge Flow			☐	☐	☐	☐	
Bypass Flow			☐	☐	☐	☐	
Other A			☐	☐	☐	☐	
Other B			☐	☐	☐	☐	
Other C			☐	☐	☐	☐	

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MP3 - Common Options Worksheet:

Analog Inputs & Devices:

DESCRIPTION	QTY	DETAIL/RANGE	DEVICE		TRANSMITTER		COMMENTS
	Please select the proper qty and range		Exists	Add	Exists	Add	
VIB A		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
VIB B		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Temp AA		100 ohm platinum RTD	☐	☐	☐	☐	
Temp BB		100 ohm platinum RTD	☐	☐	☐	☐	
Temp CC		100 ohm platinum RTD	☐	☐	☐	☐	
Temp DD		100 ohm platinum RTD	☐	☐	☐	☐	
Temp EE		100 ohm platinum RTD	☐	☐	☐	☐	
Cooling Water Inlet Temp		100 ohm platinum RTD at cooling water intake	☐	☐	☐	☐	
Cooling Water Inter-stage Temps		100 ohm platinum RTD at cooling water inter-stages	☐	☐	☐	☐	
Cooling Water Exit Temp		100 ohm platinum RTD at cooling water exit	☐	☐	☐	☐	
Water Pressure Inlet		Pressure transducer and transmitter at water intake	☐	☐	☐	☐	
Water Pressure Inter-stage		Pressure transducer and transmitter at inter-stages	☐	☐	☐	☐	
Water Flow		Flow meter at water inlet	☐	☐	☐	☐	
Motor Bearing Vibrations		☐ 100 mV/Mil ☐ 200 mV/Mil	☐	☐	☐	☐	
Discharge Flow			☐	☐	☐	☐	
Bypass Flow			☐	☐	☐	☐	
Other A			☐	☐	☐	☐	
Other B			☐	☐	☐	☐	
Other C			☐	☐	☐	☐	