

(When filling out this form electronically, save file with either Company or Application Reference and email)

Your Name:
 E-mail address:
 Company Name:
 Phone # :

Application Reference:
 Date of Inquiry:
 Quote Request Date:
 Requested Delivery:
 Quantity of Panels:

Prime Mover

Manufacturer:
 Model:
 Mfr's OEM controls:

Driven Equipment

Process:
 Type:
 Mfr:
 Model:

Local Environment

On shore
 Off-shore (corrosive atmosphere)
 H₂S gas
 CO₂ gas

Climate

Temperate
 Tropical
 Arctic
 Desert

Technology Selection

Digital annunciator
 DE-3000
 Exacta 21
 Allen-Bradley PLC

Hazardous Area Classification

Division 2, Class I, Group C & D
 Division 1, Class I, Group D
 Group B (H₂ gas)
 ATEX Zone 2 (Europe)
 Panel tag - CSA
 Panel tag - CSA - ATEX - CE
 Document submittal package
 Other - specify

Enclosure Type

Front and rear access, fixed insert, window
 Front access, swing insert, window
 Insert only (retrofit to existing enclosure)

Enclosure Accessories

Fold-down table - laptop PC
 Gland plate - electrical entrances
 Reverse mount stand w/cover plate
 Solid front door (delete window)

Enclosure Material

Powder coated carbon steel
 Custom color :
 304 SS
 316 SS

Panel Stand

None required
 Req'd height:

Pneumatic Supply Pressure Available

Customer shall furnish clean and dry air/gas.
 Instrument Air PSIG
 Instrument Gas PSIG
 Regulated pressure at source
 Un-regulated pressure at source
 Add coalescing filter (liquid aerosols removal w/automatic liquid dump)

Pressure Tubing and Fittings

316 SS, std w.t., welded seam (Altronic standard)
 316 SS, std w.t., seamless (Int'l, H₂S, CO₂)
 316 SS, XH w.t., seamless (high press, H₂S, CO₂)
 Tube fittings – plated steel, Swagelok
 Tube fittings – 316 SS, Swagelok
 Transducer calibration – 3-way valve
 Transducer calibration – block valve and bleed valve
 1/4" tube connections to skid
 3/8" tube connections to skid

Engine Ignition Type

Waukesha CEC	Altronic I
Wauk ESM (IPM ign module)	Altronic II
Cat G3300 w/Altronic V	Altronic III
Cat G3400 w/Altronic III	Altronic V
Cat G3400 w/DIS	Altronic CPU-95
Cat G3400LE w/EIS	Altronic CD-200
Cat G3500 w/ESM (EIS)	Altronic CPU-2000
Cat G3500 w/ECM-AFRC (EIS)	Altronic CPU-XL
Cat G3500 w/ADEM IV (EIS)	
Cat G3600 w/ESS (EIS)	
Cat G3600 w/ADEM IV (EIS)	

Fuel Valve Type

690040-1 (2", CD pwr)	M5081-FS-B (2", 24V to hold open)
690050-1 (2", 24V pwr)	M5081-P (2", pressure to open)
Cat-ASCO solenoid (24V)	M5081-B (2", 24V to close)
Normal solenoid (24V)	M5081-C (2", CD ignition to close)
Other (specify):	M2582-B (1", 24V to close)
	M2582-C (1", CD ignition to close)

Power Available for Control Panel

24VDC	Local utility electrical grid
12VDC	On-site electrical generator
115-220VAC	Engine driven alternator
CD Ignition, G lead	Solar panel w/batteries

End Device Discrete Signal Type

Normally Open (closed contact to ground at end device – single wire system)
 Normally Closed (fail safe – open contact at end device – 2-wire system)

Speed Input Signal

Magnetic pickup (specify # of ring gear teeth or engine model)
CD Ignition, G lead (specify engine model and ignition)
Stand-alone hourmeter (Altronic DH-100A)

Overspeed (set point =)
Underspeed (set point =)

Engine Starting Controls

Push to crank – manual pneumatic
Push to crank – manual electric
One-button (DE-3000 or Exacta 21)
Remote start-stop (DE-3000 or Exacta 21)
Auto start-stop (DE-3000 or Exacta 21)

Compressor Pre-Lube

Manual – BY OTHERS
Push to lube – pneumatic
Annunciator controlled – DD-40NTV
Annunciator controlled – DE-3000

Engine Speed Control – Pneumatic

Pneumatic – manual – gauge and regulator
Pneumatic – manual and auto – gauges, regulator, and selector
Automatic – see SET POINT CONTROL below

Engine Pre/Post-Lube

Manual - BY OTHERS
Push to lube – pneumatic
Annunciator controlled – DD-40NTV
Annunciator controlled – DE-3000

Engine Speed Control – Electronic Governor

Manual Rated speed signal – potentiometer
Idle/Rated – mode selector switch
Automatic speed signal – see SET POINT CONTROL below

Emergency Stop Control

Local – jumbo red button – side of panel
Button bump guard
Remote – on location – interposing relay in panel
Remote – via communications (NTV, DE, or Exacta 21)

Engine Air-Fuel Ratio Control

EPC-50 – rich-burn, single bank only
EPC-120 – rich-burn, single or dual bank
EPC-100E – rich-burn, single/dual bankv extra features
EPC-150 – lean-burn, single/dual bank
EPC-200 – fuel-admitted engines only

Set Point Controller

DSG-1611DUPS – 1-channel, linear output only
DSG-1682DUPS – 1-channel, PID loop
DE-1500 – 2-channel, PID loop
DE-3000 – 2 or 4-channel, PID loop
Exacta 21 – 4-channel, PID loop & linear output

Set Point Control

Output of Controller

Suction pressure	Engine speed	Suction throttling valve
Discharge pressure	I/P (3-15psig)	I/P (3-15psig)
Engine air manifold	4-20mA or 1-5VDC	4-20mA
Other process	Recycle valve	Rotary screw – turn valve or slide valve
Output cascade	I/P (3-15psig)	(Pulsed load-unload power to solenoids)
	4-20mA	

Process Valve Control

Suction valve	Manual (AMOT valve)	Automatic – Exacta 21
Discharge valve	Manual (AMOT valve)	Automatic – Exacta 21
Blowdown valve	Manual (AMOT valve)	Automatic – Exacta 21
Bypass valve	Manual (AMOT valve)	Automatic – Exacta 21
Purge valve	Manual (AMOT valve)	Automatic – Exacta 21
Compressor unloader device	Manual (AMOT valve)	Automatic – Exacta 21

Communications Requirements

Modbus RTU slave – via RS-485 port
Modbus RTU slave – via RS-232 port
Ethernet to RS-485 adapter
Other – please specify

Remote Data Required

First-out fault – channel #
Unit Status (stop–run)
Engine speed
Analog process values
(temperatures and pressures)

Pressures: (Check the appropriate boxes for required shutdowns and fill in operating pressure)

Points	PROCESS PRESSURE	Operating Pressure (psi)											Comments	
		Low S/D - Class A, B, or C	High S/D - Class A, B, or C	Low-High Alarm	2-1/2" set point gauge	4-1/2" Altronic 45PHL	4-1/2" DSG-1611DUPS	DE-3000 display	Exacta 21 display	electronic - transducer	Calibration valve (test-op)	Pulsation dampening valve		
1	Suction - stage 1													
2	Discharge - stage 1													
3	Suction - stage 2													
4	Discharge - stage 2													
5	Suction - stage 3													
6	Discharge - stage 3													
7	Suction - stage 4													
8	Discharge - stage 4													
9	Engine oil													
10	Compressor oil													
11	Engine jacket water													
12	Auxiliary water													
13	Engine air manifold (left bank)													
14	Engine air manifold (right bank)													
15	Differential - engine oil filter													
16	Differential - compressor oil filter													
17														
18														
19														

Temperature Inputs: (Check the appropriate boxes for required shutdowns and fill in operating data)

Points	PROCESS TEMPERATURE	Operating Temp. (specify)											Comments	
		Units (deg F or deg C)	High S/D set point	Thermocouple - J or K	RTD - 3-wire, 100 ohm	Local mounted device	2-1/2" set point gauge	DPYH series pyrometer	DSM series pyrometer	DE-3000 display	Exacta 21 display			
1	Engine jacket water													
2	Engine air manifold - left bank													
3	Engine air manifold - right bank													
4	Engine oil													
5	Auxiliary water													
6	Compressor suction - stage 1													
7	Compressor suction - stage 2													
8	Compressor suction - stage 3													
9	Compressor discharge - cylinder #1													
10	Compressor discharge - cylinder #2													
11	Compressor discharge - cylinder #3													
12	Compressor discharge - cylinder #4													
13	Compressor oil temperature													
14	Engine exhaust - power cylinders													
15	Engine exhaust - common - left bank													
16	Engine exhaust - common - right bank													
17	Engine bearings main													
18														
19														
20														

