ELGI ENCAP DUPLEX-MODE CONNECTION GUIDE





SEE BELOW FOR SETUP GUIDE

1. Set each Unit's controller **DCS ID** in PLC settings to its compressor position

I.E : ID 1 for Compressor 1, ID 2 for compressor 2

To change DCS ID: navigate to OPERATOR (passcode 4545) – DCS PORT – ID

Controller Menu Navigation | MODBUS ID CHANGE

Operator	Mode	Control mode	Local / Remote / DCS
		Auto restart	On/ Off
		Pressure unit	Bar/psi
		Temperature unit	Fahren / centi
	Pressure	Unload pressure	X X . X b or p (bar or psi)
		Load pressure	XX.X b or p
		Pr. schedule	ON/ OFF
	Delay	Warn RST delay	X X X s (second)
		Star delay	XXs
		DTR delay	XXs
		RTS delay	XXs
		Standby time	X X m (minute)
		St/Sp PH	**
	> DCS port	Туре	Modbus
		ID	ХX
		Baud	9600/19200
		Parity	None / Even / Odd
		Length	8/7
		Stop bit	2/1

- 2. Navigate to OPERATOR > Machine Scroll down to "LD / UL Source" Change to "DCS"
- 3. Match each Units A(LEAD) & B(LAG) Pressure Settings on EACH NXT (REQUIRED!)

 this seems redundant, but is required for each unit to operate as LEAD when lead/lag
 rotation occurs use the following guide [Media 1-1 1-8] & [table 1-1] and see
 example pressure setup [Media 1-9]:

Menu SETUP Guide



Navigate to the SERVICE (Code 3434) menu



Select and enable "Duplex Mode" (at bottom of menu)

Media 1-3



Navigate to OPERATOR (Code 4545) menu

Media 1-2



Navigate to "Machine"



Select "LD/UL Source" (Bottom of menu) – Change to "DCS"

Media 1-6



Media 1-5



Navigate BACK one menu screen (Using Yellow RESET key)

Navigate to "DCS Port"

-11 Stop 1 Set as "02" for other unit jund .

Verify DCS ID is correct (01 for LEAD unit – 02 for LAG unit) – Set on each units controller

- Exit from DCS PORT and MACHINE menus (head to main OPERATOR menu)

Media 1-8	
-----------	--



Navigate to "Duplex Mode"

You will set Lead(A) & Lag(B) Operating pressure ranges (LOAD/UNLOAD) in this menu [See Below]



Table 1-1

Compressor	Pressure Set-Point (MUST MATCH between EACH NxT Controller!!) – [Operating Pressure	Sequence hour rotation	Sequence Rotation Delay
DCS ID <mark>#1 (A)</mark>	<mark>A</mark> – 103 – 125psi	A – 103 – 125		0-5 Min
	<mark>B</mark> — 85 — 105psi		4 Hours	
DCS ID <mark>#2 (B)</mark>	<mark>A</mark> –103 – 125psi	B – 85 – 105		0-5 Min
	B-85-105psi			



After the above settings have been completed – Press Reset until back at front screen of NxT- Press the start button ONCE on each NxT Controller until "Ready" status is displayed:



Unit in "Ready" Status

Dis.Pr D Switch Dis.Tr		00 psi 80°F
Ready ELGI	L	A *v2.04D*

Initialization of "READY" status may also display "D Switch" – meaning units have fallen within rotation interval for initialization. This is normal and can be ignored



Press start button and begin running of Compressor ID #1, LEAD, unit.

112 PSi ** 166°F Run Load L A *v2.04D* ELGI

Press start button and begin running of Compressor ID #2, LAG, unit

Allow both units to unload, stay unloaded, and shutdown on the 5 MIN (default) Standby countdown time

Both units are now in "Standby Status" – After-pressure drops again and LEAD unit starts/loads – LEAD/LAG will be automated.

This guide is purposed to allow running of ELGI units using UM Sequencers via basic settings

END OF GUIDE

Thank you