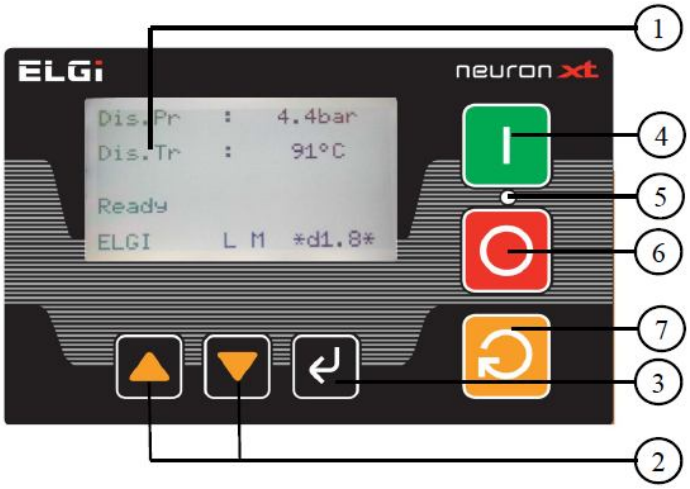
Neuron XT – Quick Reference Manual



1 128x64 Graphical display
2 Navigation keys
3 Enter key
4 Start key
5 LED (Green - Start , Red - Stop/Fault)
6 Stop key
7 Reset key

MAIN SCREEN DISPLAY

- Package Discharge Pressure
- Discharge Temperature
- Machine Status like Run, Load, Unload, Standby etc.
- Warning Messages
- Mode Information (see below)

Mode Information

1. PS – Pressure Schedule Enabled / UL – Unload Mode Enabled
2. L – Local / R – Remote / D – DCS
3. A / M – Auto Restart ON / Manual Mode

Compressor Status messages

Status	Description
Ready	Ready for start
Star	Motor running in star
Run	Motor running in delta
Run load	Compressor in load
Run unload	Compressor in unload
Stop busy	Stop sequence in progress
Emergency stop	Emergency stop push switch is on
Temperature inhibit ±XX	While starting, if the discharge temperature is lower than the set inhibit temperature value, you will see this message. ±XX denotes the live discharge temperature value. The compressor starts only if the discharge temperature value goes above the set value.
Auto restart "seconds"	If compressor is in auto mode, The controller will ensure minimum delay (user set, e.g. 90 sec) between stop and start. count stops if "STOP" key is pressed
Start ack wait...	This message is displayed after a fault is cleared and waiting for user acknowledgement. By pressing "RESET" key user can acknowledge.
Standby	Compressor in standby mode.

Compressor Warning Messages

Warning	Description
Warn temperature	When discharge temp. exceeds the set warn temperature (Default is 105°C)
Change oil filter	When service remaining Hr. reaches 0000
Change air filter	When service remaining Hr. reaches 0000
Change oil	When service remaining Hr. reaches 0000
Change grease	When service remaining Hr. reaches 0000
Change separator	When service remaining Hr. reaches 0000
Change valve kit	When service remaining Hr. reaches 0000

Compressor Fault Messages

Fault	Description
Pr. Probe failure	Discharge pressure sensor probe failure
Tr. Probe failure	Temperature sensor probe failure
HSP	If discharge pressure exceeds the set high sump pressure value.
Cooler	If the cooler digital input opens due to cooler fault.
Main motor overload	If the MMOL digital input opens due to main motor
Phase loss/reverse	If input phase is lost or reversed before start of the main motor.
Trip temperature	If the discharge temperature exceeds the set trip temperature value.
Power interruption	If the mains supply is interrupted for more than 20 msec.
Low voltage	If the mains supply voltage is less than 67% of the rated voltage, the compressor will be tripped and all controller operations have halted until the mains supply comes back to normal (at least 75% of the rated).
Dis. pressure not developing	After the load, the discharge pressure should be at least 0.5 bar/7psi in 5mins. If it has not reached this level, this fault occurs.

Menu Structure