

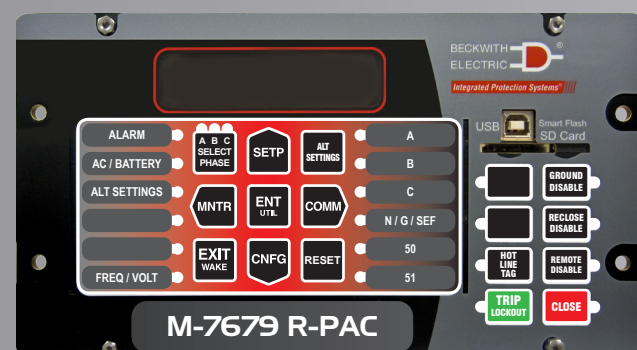
 A proud member of the Hubbell family.



Vertical Mounting Configuration

### Default Front Panel LED and Pushbutton Labels for M-7679 units configured with Operation Types:

- Option A** Recloser – Three Phase Ganged
- Option T** Recloser – Independent Phase Capable
- Option V** Distribution Automation Package – Three-Phase Ganged
- Option W** Distribution Automation Package – Independent Phase Capable

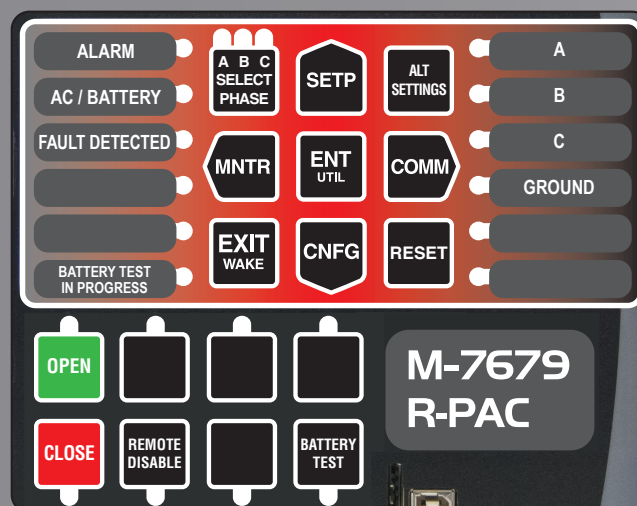


Horizontal Mounting Configuration

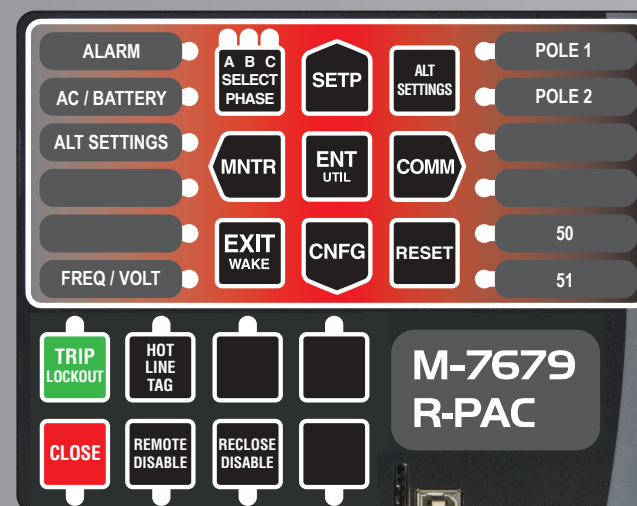
The LED and Pushbutton layout is adjusted for the Horizontal Configuration, the Default Labels are the same.

### Default Front Panel LED and Pushbutton Labels for M-7679 units configured with Operation Types:

**Option S**  
Switch/Sectionalizer – Three-Phase Ganged



**Option P**  
DA Package – Single Phase/Two Phase



### LCD SCREEN

Pressing any pushbutton will wake up the LCD and display the heading corresponding to the "Shortcut" label inside the pushbutton - MNTR, SETP, COMM, CNFG or UTIL.

### HMI SHORTCUTS/ARROWS

**MNTR** – Direct access to the Monitoring Screens and navigates "LEFT".

**SETP** – Direct access to the Setpoints Screens and navigates "UP".

**COMM** – Access to the Communication Screens and navigates "RIGHT".

**CNFG** – Access to the Configuration Screens and navigates "DOWN".

**ENT/UTIL Pushbutton** – Direct access to the Utilities screens and ENTER pushbutton. While navigating through the different HMI menus, the ENT pushbutton is used to:

- Enter the edit mode of a screen
- Store a setpoint or condition in memory
- Enter the sub heading data level
- Reset certain monitoring screens

**EXIT/WAKE Pushbutton** – The WAKE Pushbutton is used to wake the LCD from sleep mode and start scrolling through a list of user programmed metered/calculated values. While navigating through the different HMI menus, the EXIT pushbutton is used to Exit a level to the next higher level, cancel data entry or display user lines.

**SELECT PHASE Pushbutton** – With the Independent Phase Capable Recloser option, the SELECT PHASE Pushbutton selects the action that the TRIP and CLOSE pushbuttons perform. The Select Phase pushbutton can select either an individual phase or all three phases.

**ALT SETTINGS** – Allows the user to switch the active profile to any of the 8 available profiles.

**RESET** – The Reset pushbutton resets targets and lockouts.

### USB PORT/SD CARD SLOT

**USB Port** – Used for local programming via PC using IPScm Communications software.

**Smart Flash SD Card Slot** – Allows the user to: Load and Save Setpoints, Save and Load Clone Files, Save Data Files and Events Records, Use SD Card as a Physical Security Key, and Update Firmware and Bootloader.

### PROGRAMMABLE LEDs

20 Programmable LEDs that can be customized using IPScm® Communications Software "Front Panel Functions" menu.

### OPTION P LEDs

**POLE 1** – LED will light solid red if there is an overcurrent condition in Pole 1.

**POLE 2** – LED will light solid red if there is an overcurrent condition in Pole 2.

### PROGRAMMABLE PUSHBUTTONS

Pushbuttons that can be customized using IPScm Communications Software "Front Panel Functions" menu.

**TRIP/LOCKOUT** – Operates the recloser/breaker by tripping all three phases at once. With optional Independent Phase Operation, when used with the Select Phase pushbutton, it operates a single phase.

**CLOSE** – Operates the recloser/breaker by closing all three phases at once. With optional Independent Phase Operation, when used with the Select Phase pushbutton, it operates a single phase.

**HOT LINE TAG** – Enables the use of the Hot Line Tag programmed settings for the profile currently in use.

**REMOTE DISABLE** – Blocks and unblocks remote control/operation of the recloser.

**RECLOSE DISABLE** – Enables/disables the reclose functions.

**GROUND DISABLE** – Enables/disables the Ground or Neutral functions.

### OPTION S PUSHBUTTONS

**OPEN** – Operates the Switch/Sectionalizer by opening all three phases at once.

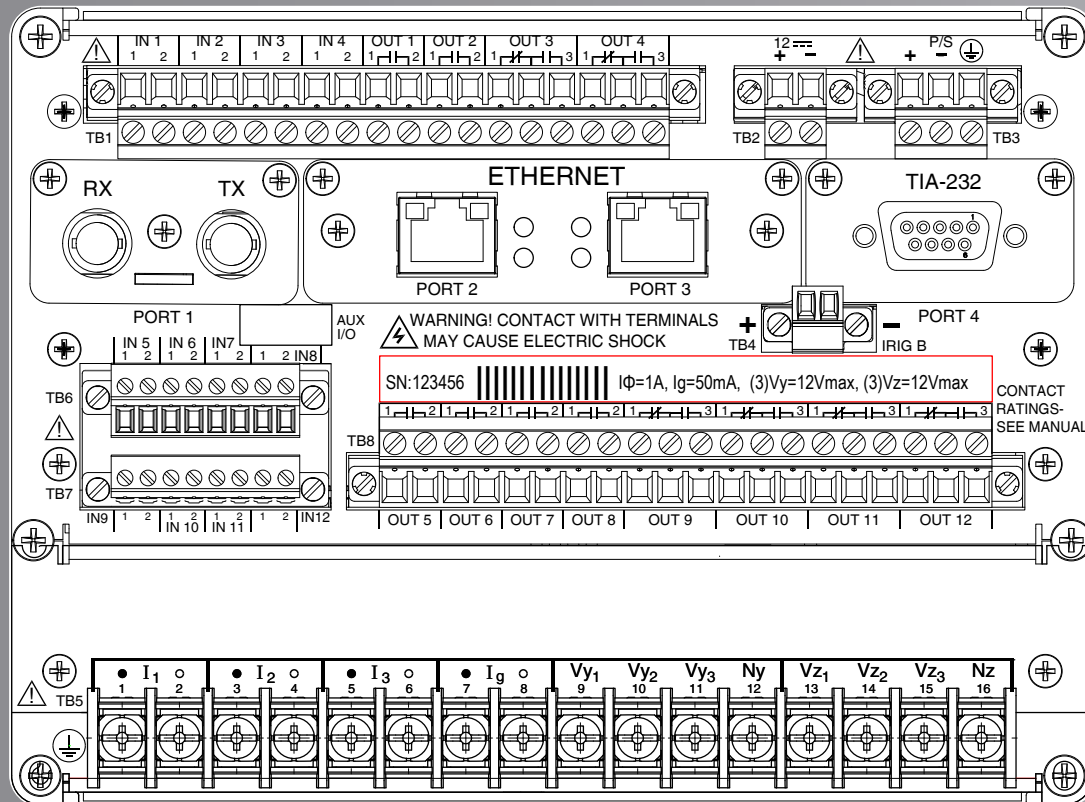
**CLOSE** – Operates the Switch/Sectionalizer by closing all three phases at once.

**REMOTE DISABLE** – Blocks and unblocks remote control/operation of the Switch/Sectionalizer.

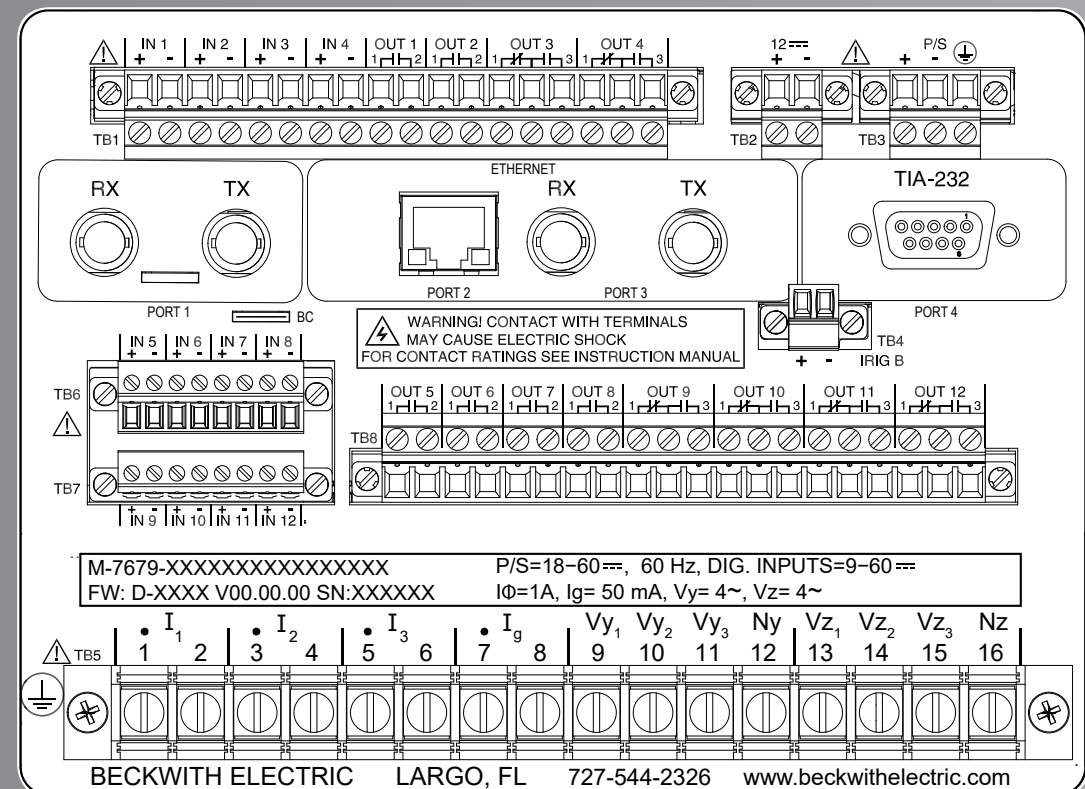
**BATTERY TEST** – Initiates a Battery Test on the M-7679 R-PAC.



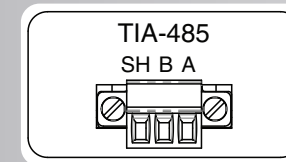
Quick access to the M-7679 page to download technical support literature.



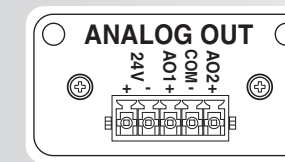
M-7679 External Connections (Typical configuration, other options are available)



M-7679 External Connections (Unit Serial Numbers 1 to 2000)



Optional TIA-485 Communications Module



Optional Analog Output Module Port 1 Only

## M-7679 R-PAC Style Selection Table


M-7679 - V 6 L 1 M H 4 S L A 2 0 0 0 0

Category	Option	Description	Price	
Mounting	V	Vertical	S	
	H	Horizontal	S	
Frequency	6	60Hz	S	
	5	50Hz	S	
Power Supply	L	Low (18-60 Vdc)	S	
	H	High (90-315 Vac/Vdc)	S	
Phase Current Inputs (I1, I2, I3)	1	1 A (3)	S	
	5	5 A (3)	S	
	S	5 mA with Interposing CT (1.0 A Nominal) (3)	S	
Ground Current Input (I <sub>g</sub> )	1	1 A	S	
	5	5 A	S	
	H	200 mA SEF	S	
	M	50 mA SEF	S	
	L	10 mA SEF	S	
Voltage Inputs	S	1 mA SEF with Interposing CT (20 mA Nominal)	S	
	H4	(4) LEA-High or VT (300 Vac Max)	S	
	L4	(4) LEA-Low (12 Vac Max)	S	
	X4	(3) LEA-Low (12 Vac Max) and (1) LEA-High or VT (300 Vac Max)	S	
	H6	(6) LEA-High or VT (300 Vac Max)	S	
	L6	(6) LEA-Low (12 Vac Max)	S	
	X6	(3) LEA-Low (12 Vac Max) and (3) LEA-High or VT (300 Vac Max)	S	
	I/O Options	SL	(4) Configurable LV Inputs 9~180V AC/DC, and (4) Configurable Dry Type Outputs	S
		SH	(4) Configurable HV Inputs 180~300 Vdc, 180-280 Vac, and (4) Configurable Dry Type Outputs	S
		EL	(8) Additional LV Inputs 9~180V AC/DC, and (8) Additional Dry Type Outputs	S
EH		(8) Additional HV Inputs 180~300 Vdc, 180-280 Vac, and (8) Additional Dry Type Outputs	S	
Protocols	0	None	S	
	X	Customer Specific Requirements	◆	
PORT 4 (Serial)	0	Standard (DNP3.0 & MODBUS)	S	
	4	IEC 60870-5-104 (Requires an Ethernet port)	\$	
	6	IEC 61850 (Requires an Ethernet port)	\$	
PORT 2/ PORT 3 (Ethernet)	9	IEC 61850 + IEC 60870-5-104 (Requires an Ethernet port)	\$	
	0	None	S	
	2	TIA-232 Port	\$	
PORT 1 (Serial)	4	TIA-485 Port	S	
	S	Serial Fiber Optic ST Port	\$	
	V	Serial Fiber Optic V-pin Port	\$	
	A	Analog Output Module	\$	
Operation Type	S	Switch/Sectionalizer (SW/SECT) – Three-Phase Ganged	S	
	P	Distribution Automation Package (79, SW/SECT, LS) – Single Phase/Two Phase	\$	
	A	Recloser – Three Phase Ganged	S	
	T	Recloser – Independent Phase Capable (Requires expanded I/O option)	\$	
	V	Distribution Automation Package (79, SW/SECT, LS) – Three-Phase Ganged	\$	
	W	Distribution Automation Package (79, SW/SECT, LS) – Independent Phase Capable (Requires expanded I/O option)	\$	

S = Standard  
\$ = Optional With Price Adder  
◆ = Consult Factory

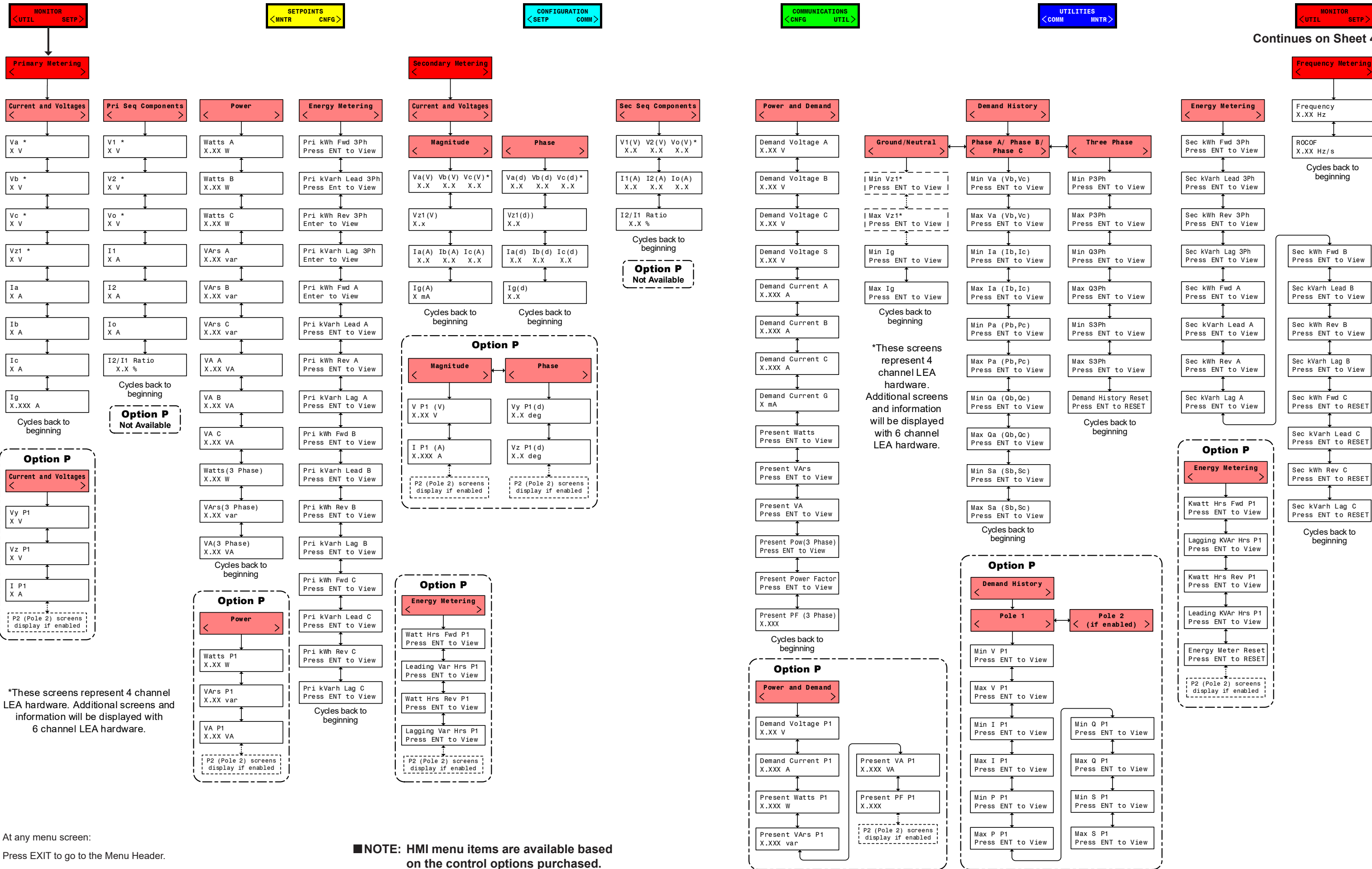
 Death or severe electrical shock can occur.

**WARNING:** In no case should the line current circuit be interrupted. Do not remove auxiliary current transformers without shorting the current inputs.

 Exercise care during installation, operation and maintenance procedures

The equipment described in this guide contains voltages high enough to cause serious injury or death. Only qualified personnel should install, operate, test, and maintain this equipment. Be sure that all personnel safety procedures are carefully followed. Exercise due care when operating or servicing alone.

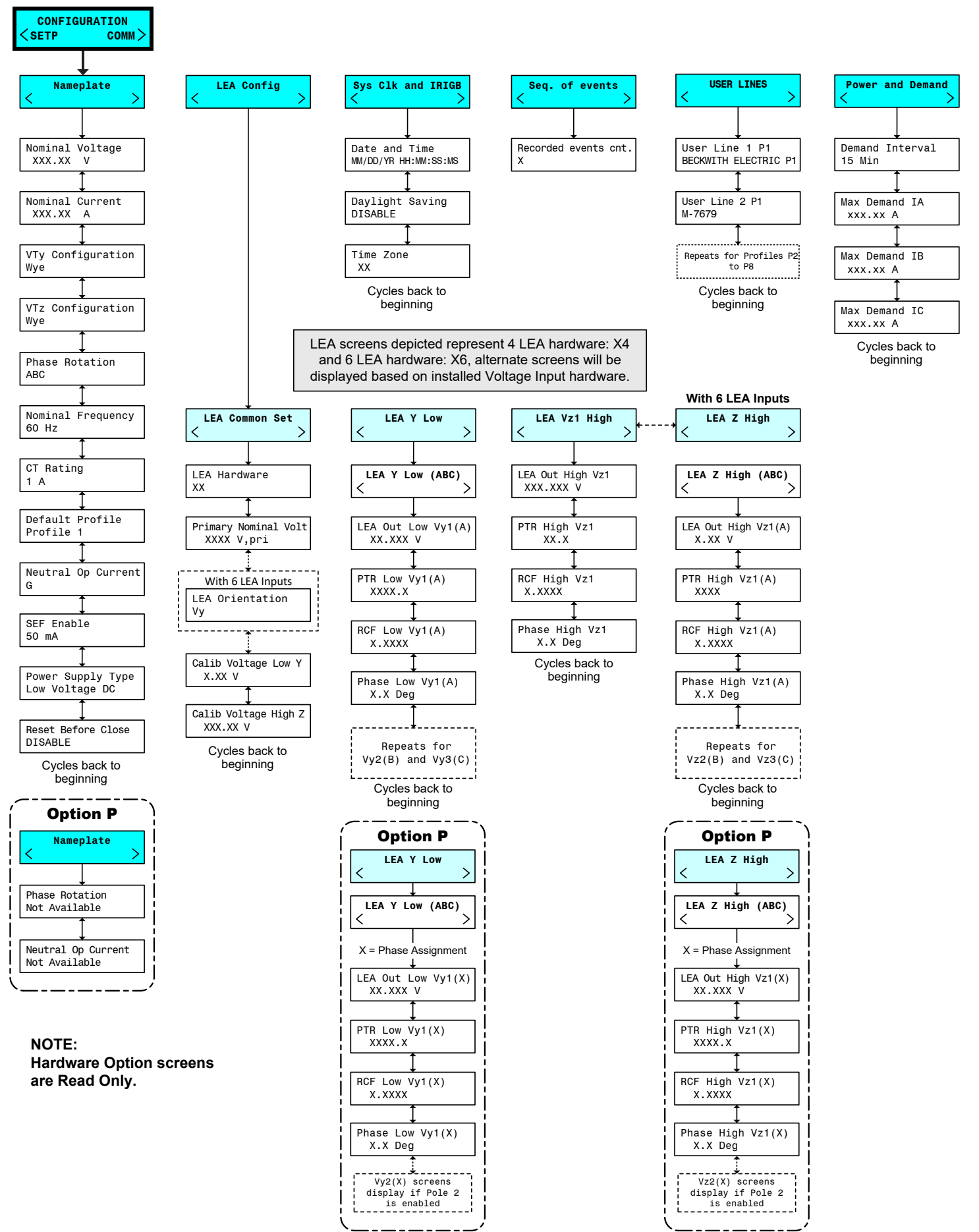
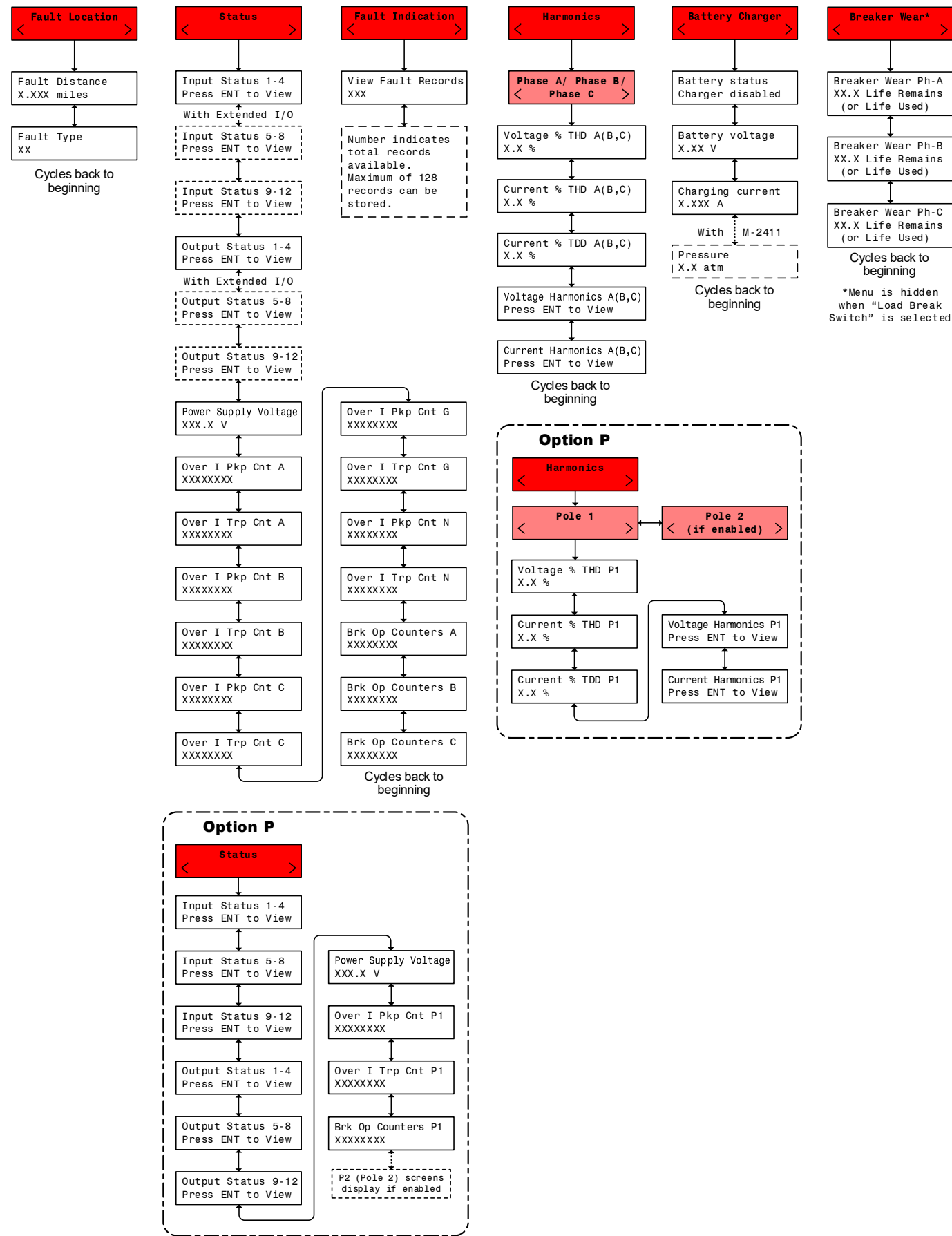




Continues on Sheet 4

At any menu screen:  
 Press EXIT to go to the Menu Header.  
 Press either ← → to move sideways to the adjacent Menu Header.

NOTE: HMI menu items are available based on the control options purchased.



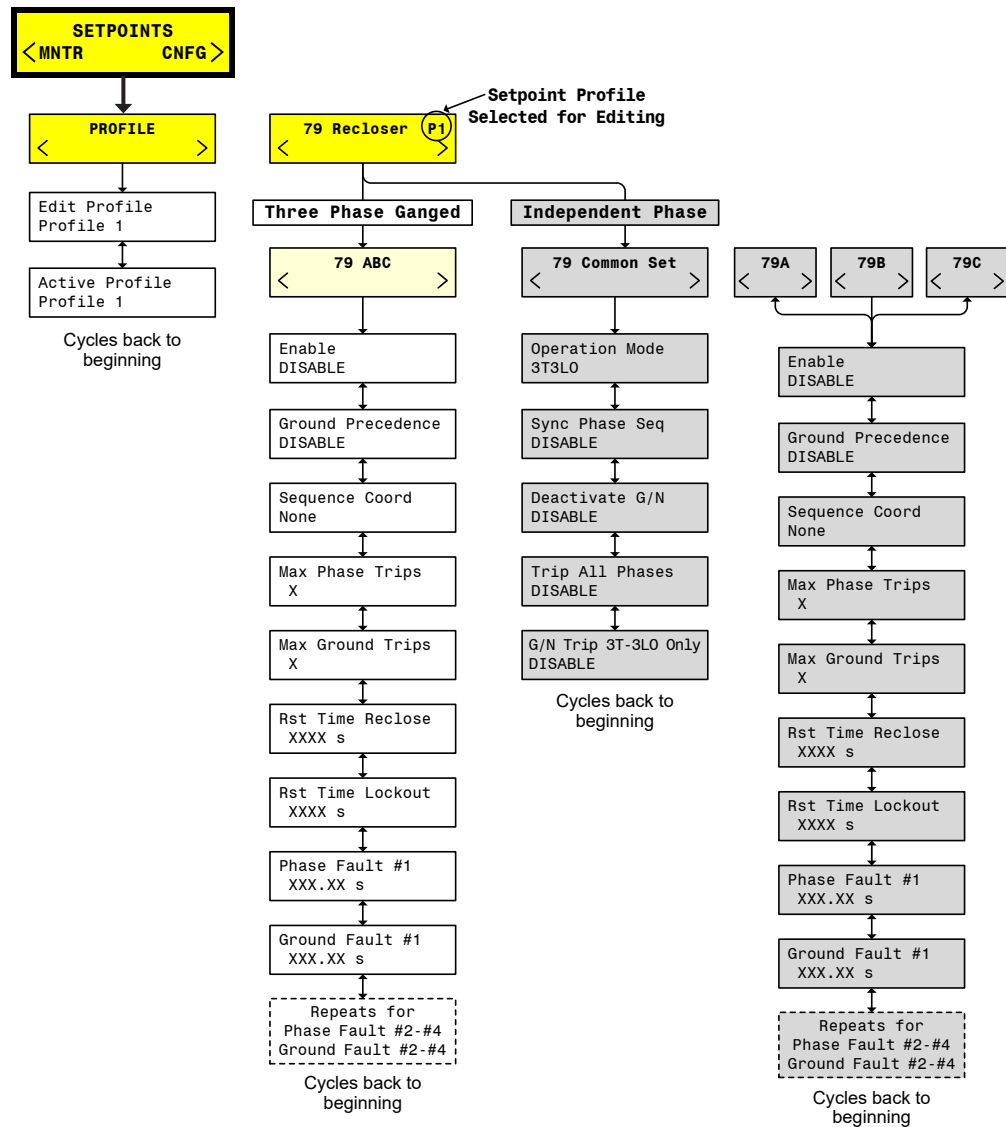
LEA screens depicted represent 4 LEA hardware: X4 and 6 LEA hardware: X6, alternate screens will be displayed based on installed Voltage Input hardware.

**NOTE:** Hardware Option screens are Read Only.

At any menu screen:  
 Press EXIT to go to the Menu Header.  
 Press either ← → to move sideways to the adjacent Menu Header.

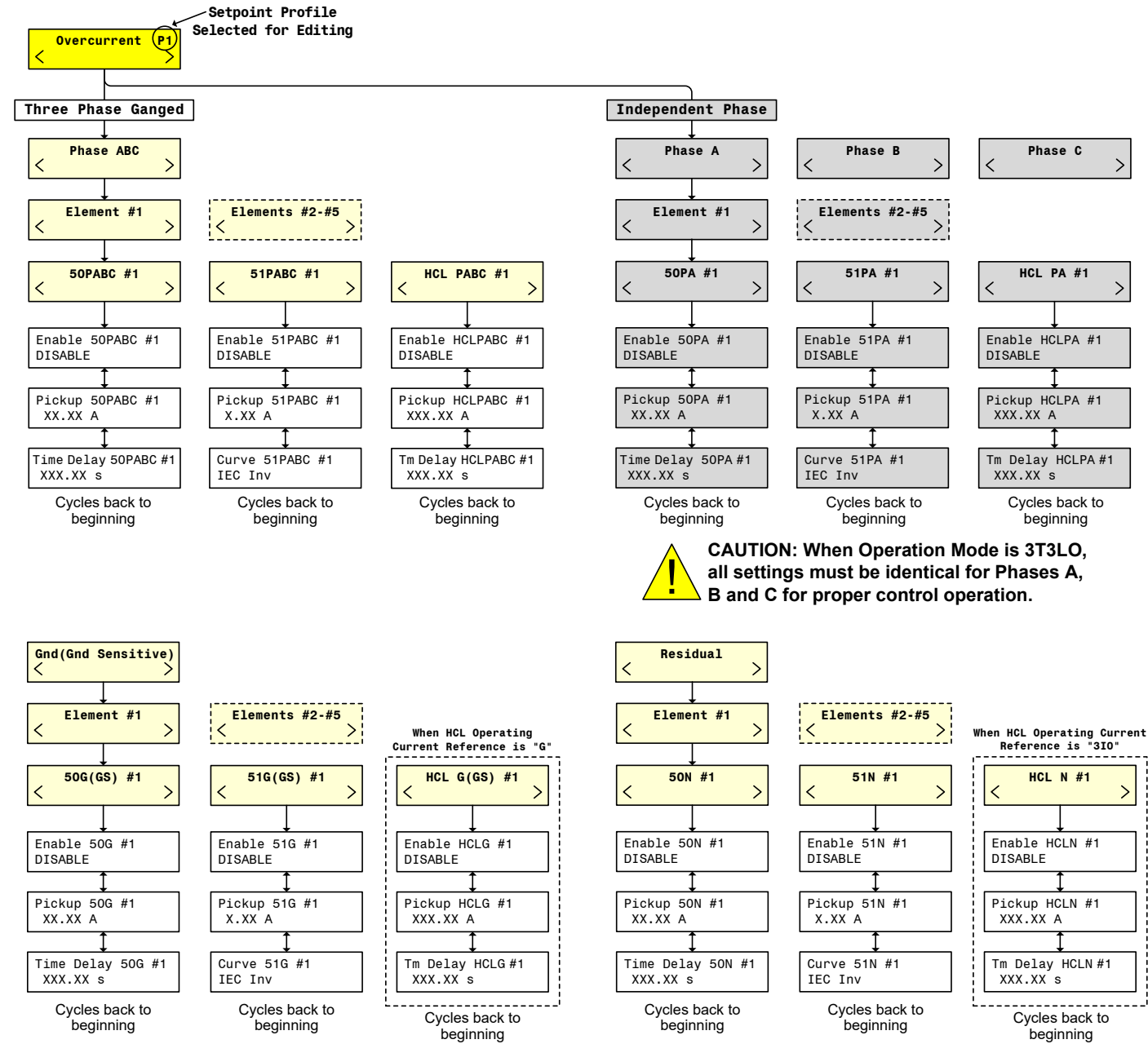
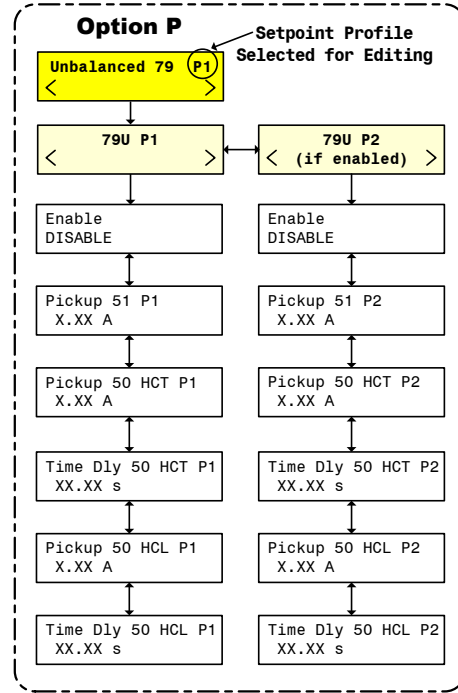
**NOTE:** HMI menu items are available based on the control options purchased.



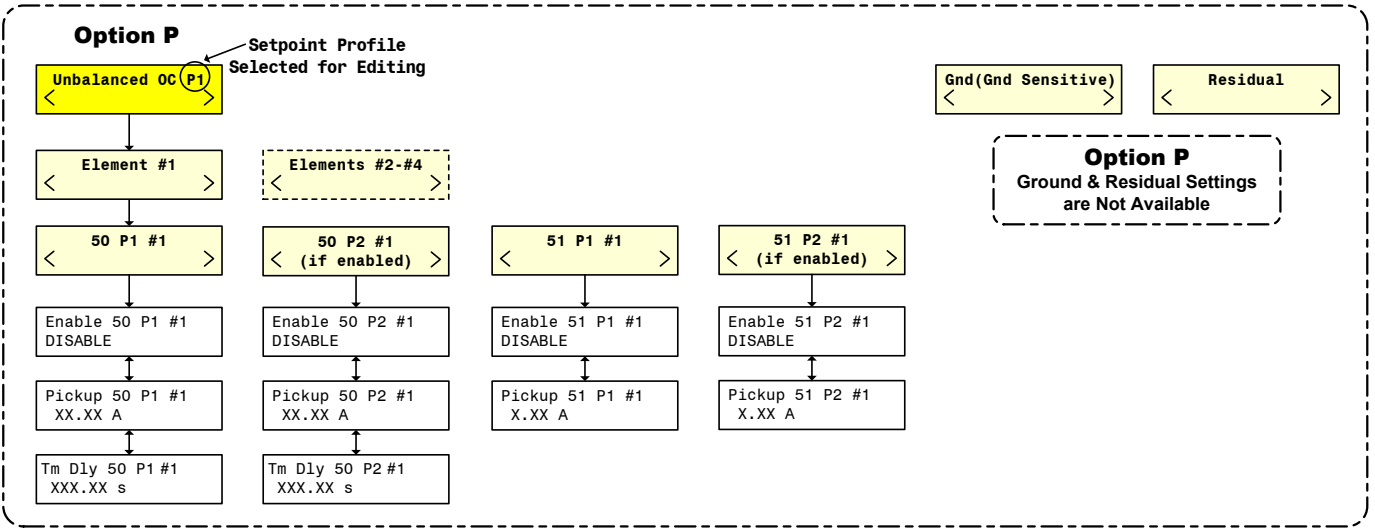


**CAUTION:** When Operation Mode is 3T3LO, all settings must be identical for Phases A, B and C for proper control operation.

**NOTE:** Items in GRAY will be displayed ONLY with the optional Independent Phase Capable Operation Type

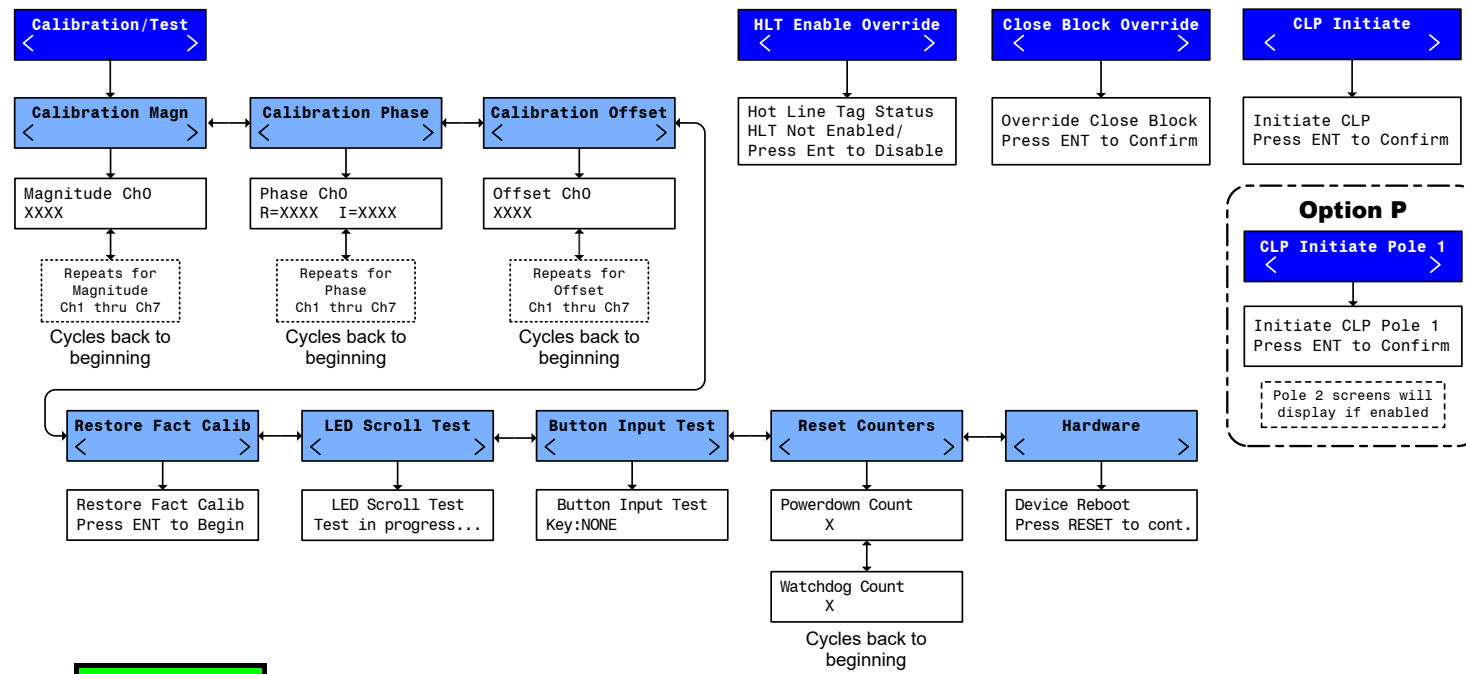


**CAUTION:** When Operation Mode is 3T3LO, all settings must be identical for Phases A, B and C for proper control operation.



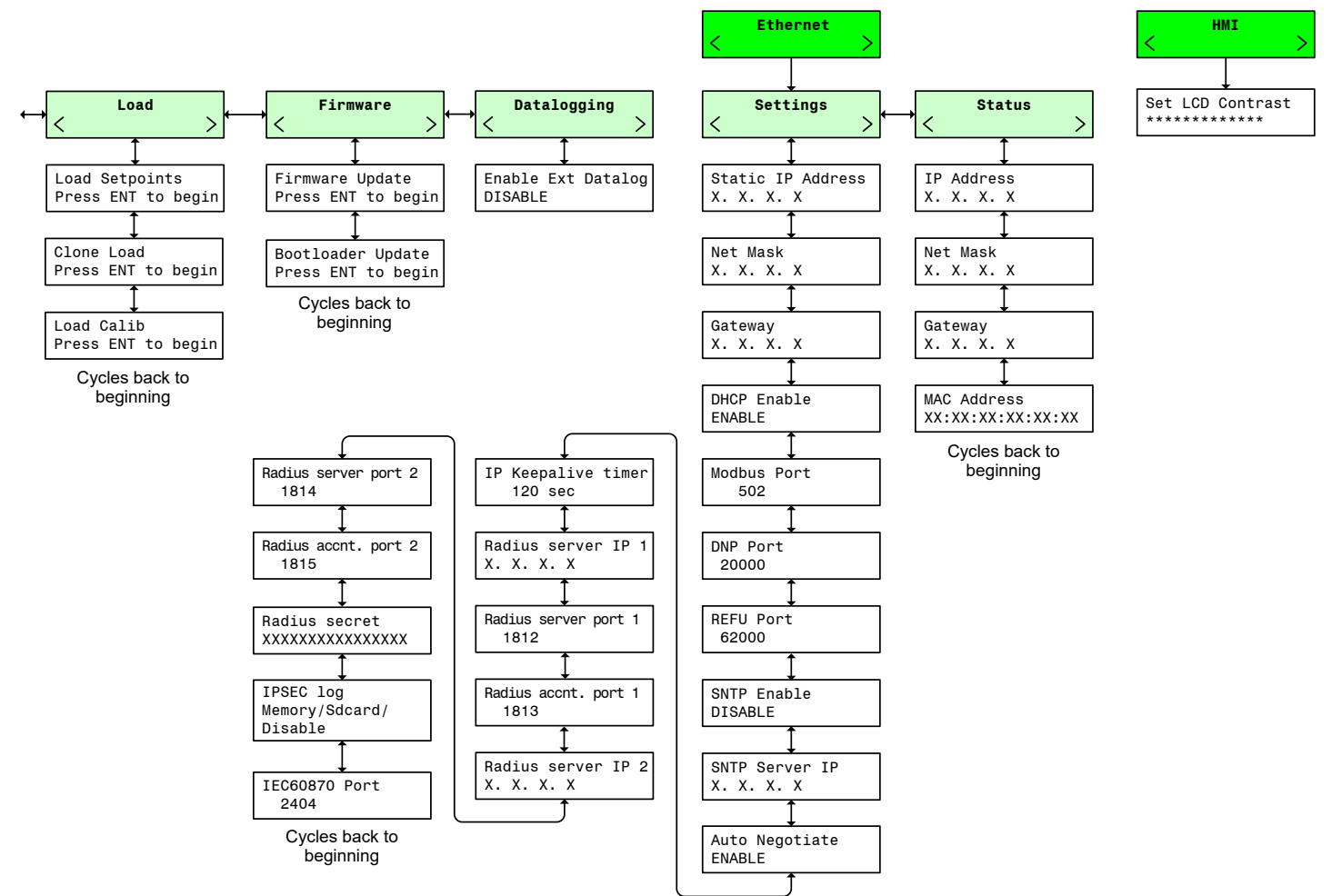
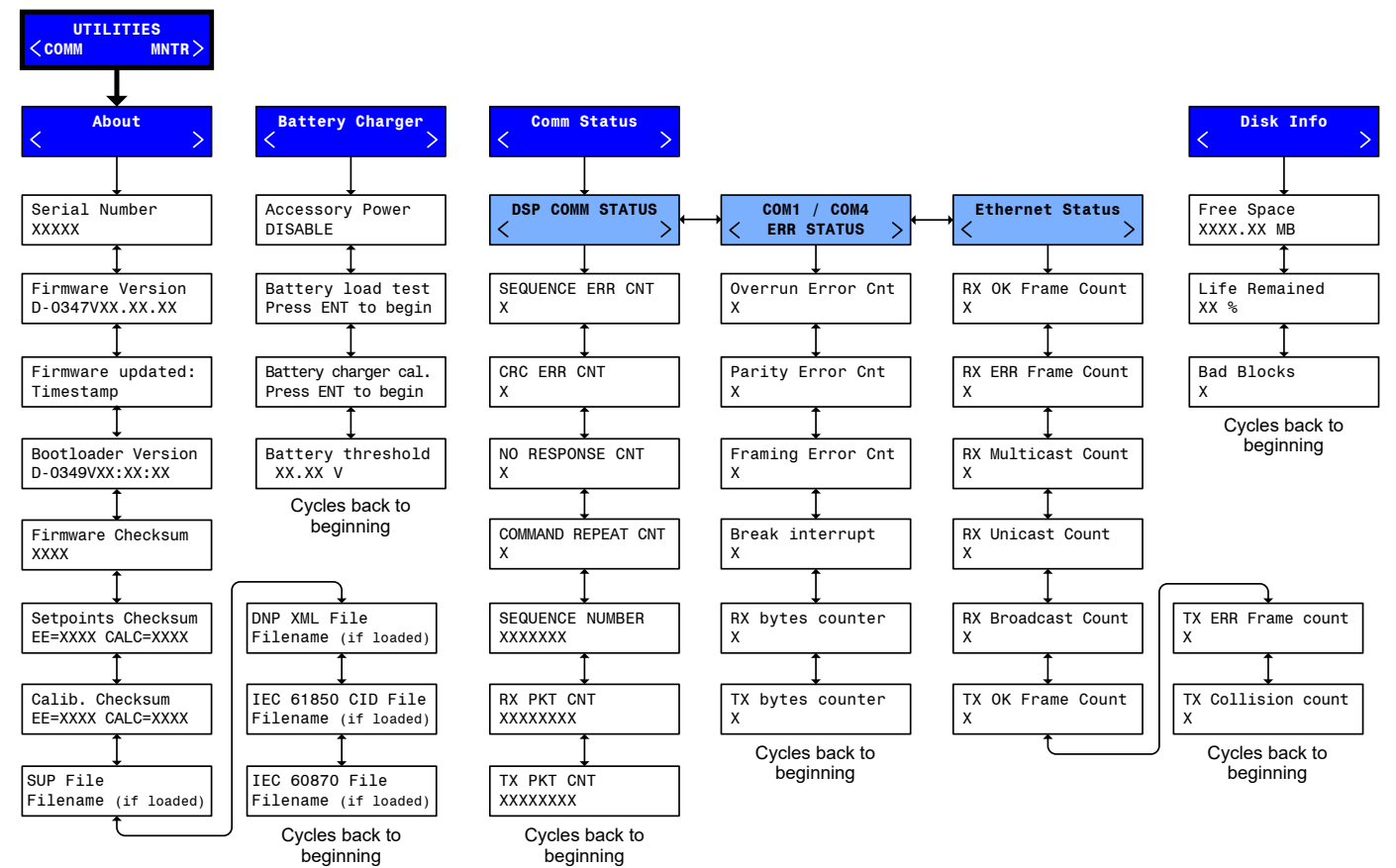
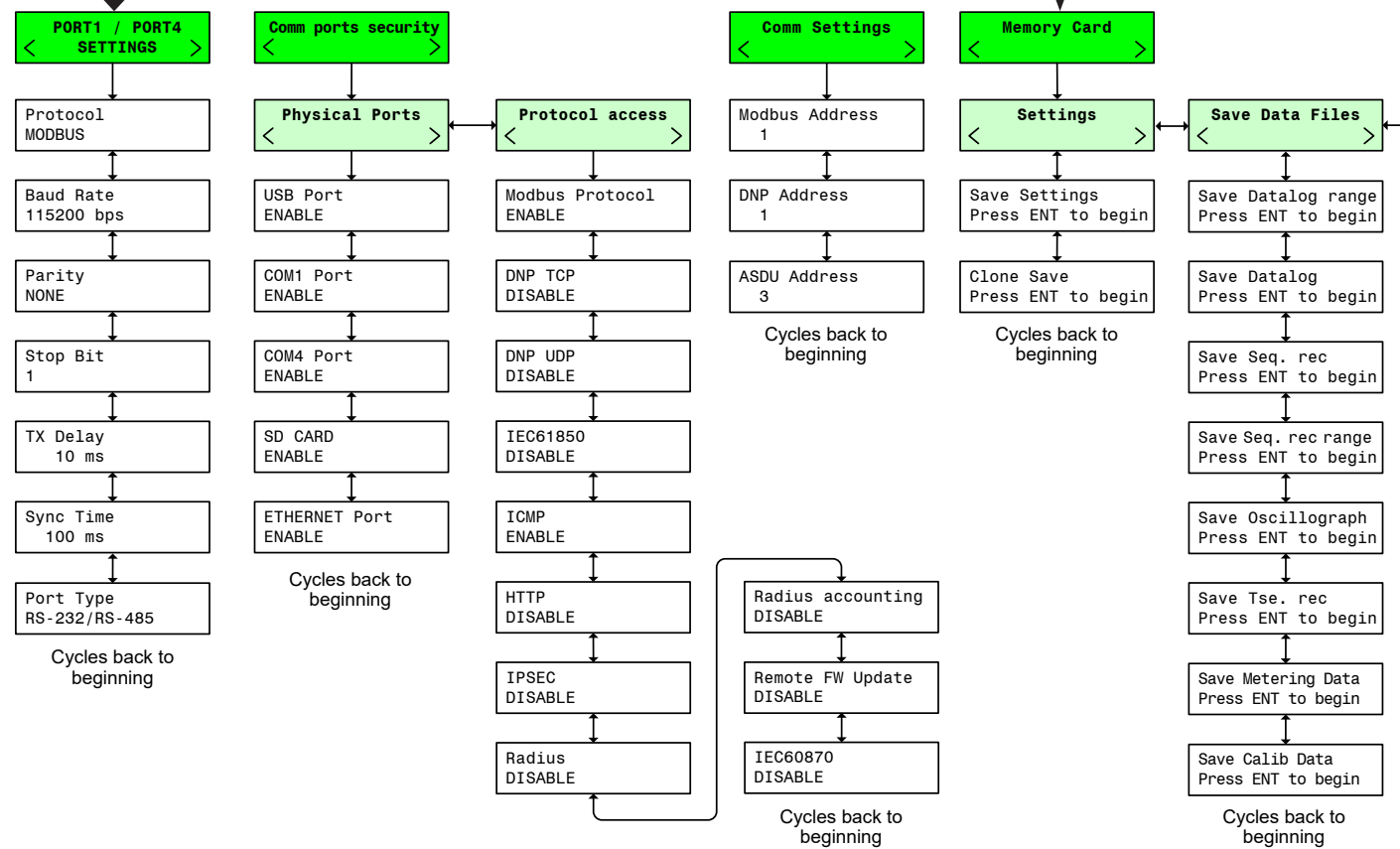
At any menu screen:  
 Press EXIT to go to the Menu Header.  
 Press either ← → to move sideways to the adjacent Menu Header.

**NOTE:** HMI menu items are available based on the control options purchased.



**COMMUNICATIONS**  
< CNFG UTIL >

When Memory Card is present, this is the first menu displayed under "Communications"



At any menu screen:  
Press EXIT to go to the Menu Header.  
Press either ← → to move sideways to the adjacent Menu Header.

Technical Support  
www.beckwithelectric.com / (727) 544-2326  
Email Support: beckwithelectricsupport @ hubbell.com

NOTE: HMI menu items are available based on the control options purchased.