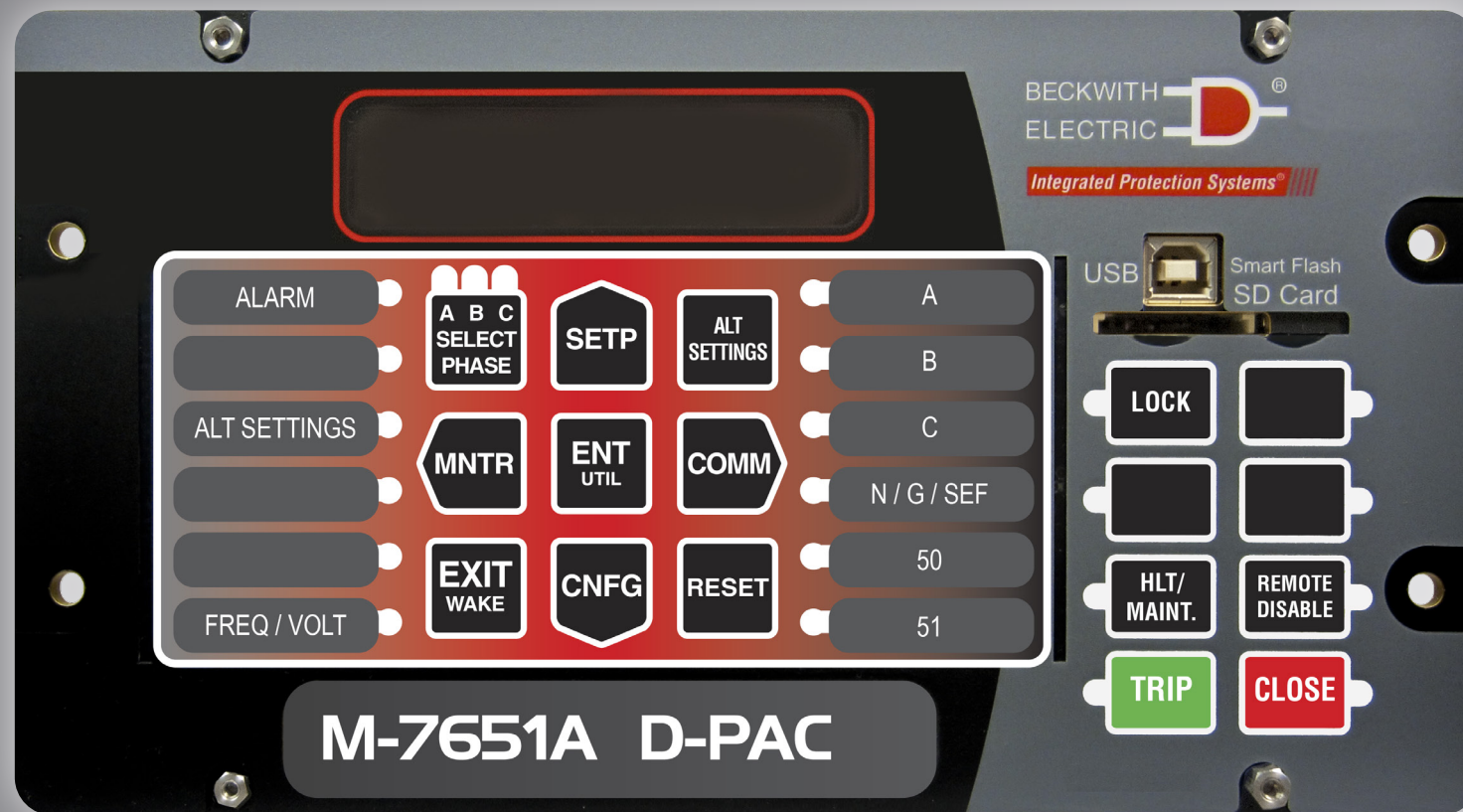


## Protection, Automation and Control System for Power Distribution Applications



**BECKWITH  
ELECTRIC** 



A proud member of the Hubbell family.

### 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** – is not operable.

**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.

### PROGRAMMABLE LEDs

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

### PROGRAMMABLE PUSHBUTTONS

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

**TRIP** – Operates the breaker by tripping all three phases at once.

**CLOSE** – Operates the breaker by closing all three phases at once.

**HLT/MAINT.** – Enables the use of the Hot Line Tag/Maintenance Mode programmed settings for the profile currently in use.


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


**LOCK** – Toggles the Lock/Unlock state of the front panel right side pushbuttons. The TRIP pushbutton remains accessible in the LOCK state.

### USB PORT/SD CARD SLOT

**USB Port** – Used for local programming via PC using IPScorn 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.

 **Death or severe electrical shock can occur.**  
**WARNING:** In no case should the line current circuit be interrupted with the regulator or transformer energized. Do not remove auxiliary current transformers without shorting the current inputs.

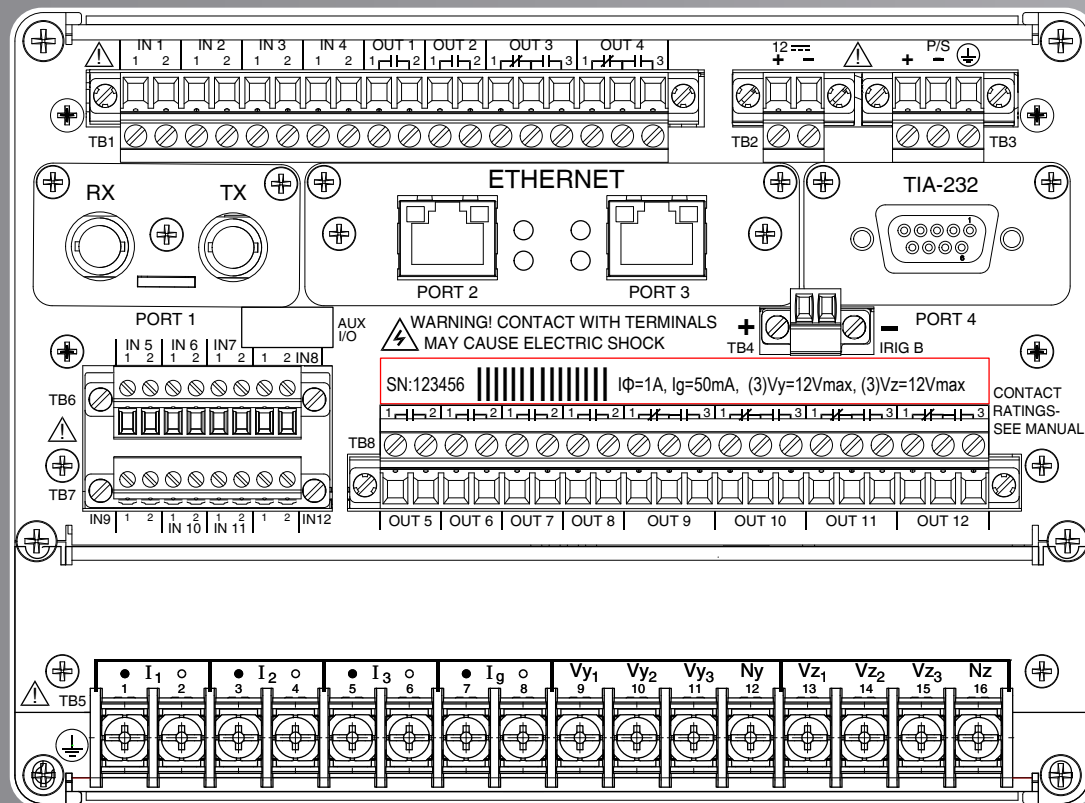
 **Exercise care during installation, operation and maintenance procedures**  
The equipment described in this guide contains voltages high enough to cause serious injury or death. Only qualified personnel should install, operate, test, and maintain this equipment. Be sure that all personnel safety procedures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



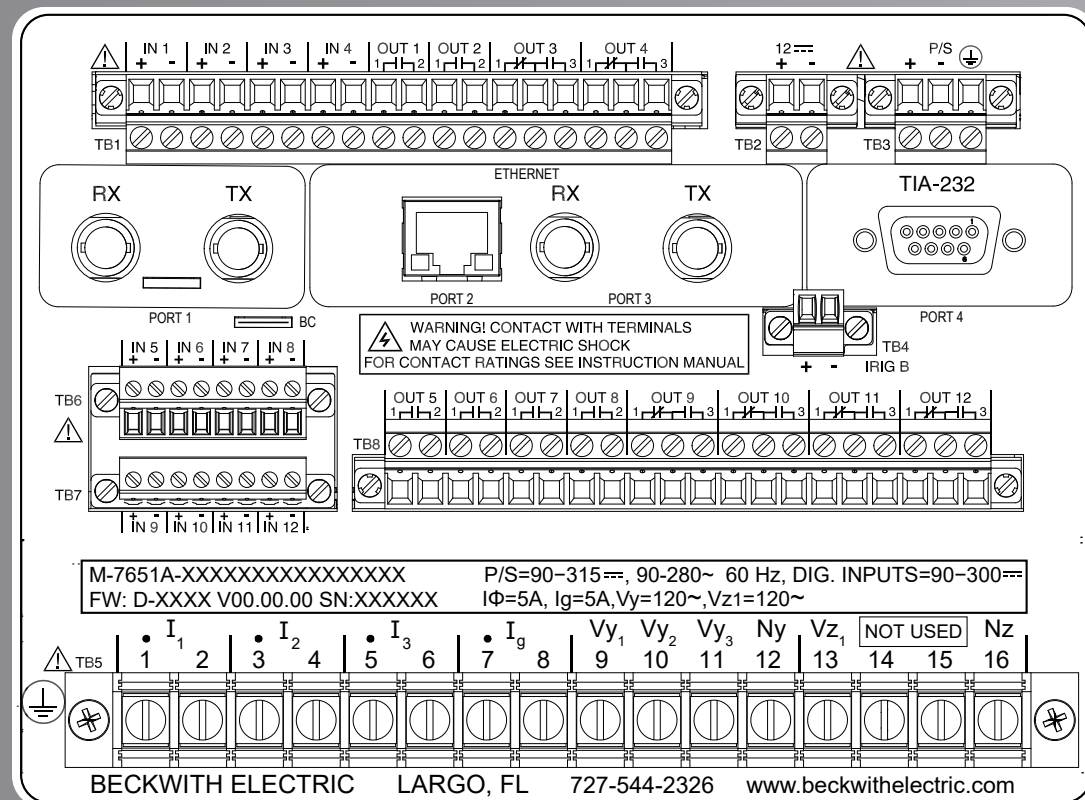
Quick access to the M-7651A page to download technical support literature.

# M-7651A D-PAC

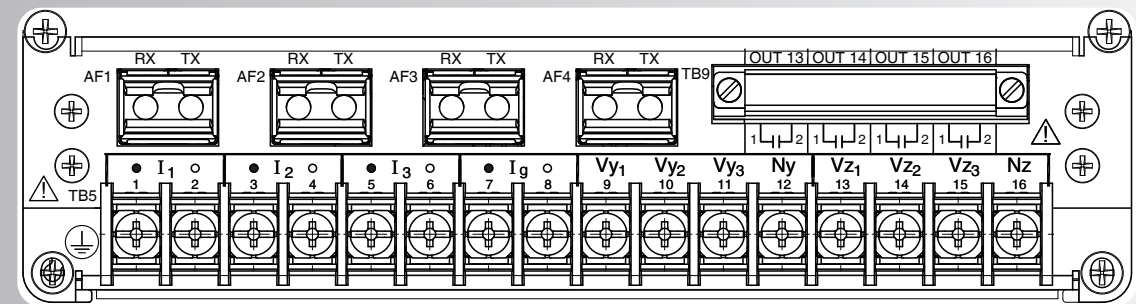
# Quick Start Guide



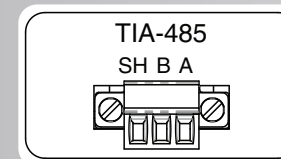
M-7651A External Connections (Typical configuration, other options are available)



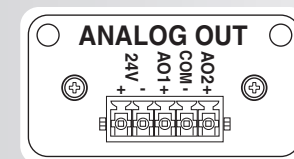
M-7651A External Connections (Unit Serial Numbers 1 to 2000)



Optional Arc Flash module



Optional TIA-485 Communications Module



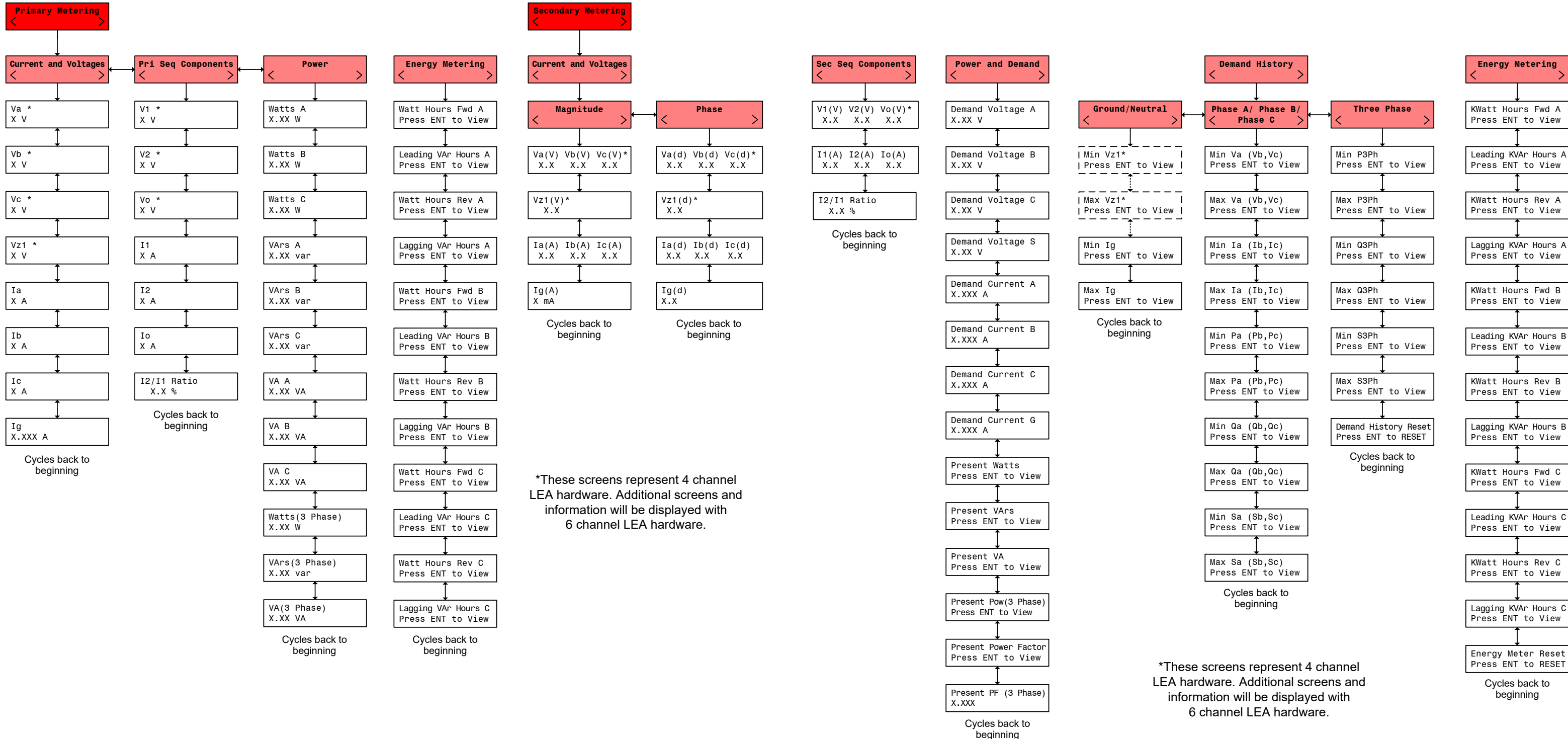
Optional Analog Output Module Port 1 Only

## M-7651A D-PAC Style Selection Table

M-7651A - H 6 H 5 5 H 4 SL 0 0 0 0 0 0

Option	Description	Code	Price	
S	Vertical Mounting	V		
	Horizontal Mounting	H		
	Frequency	6 (60Hz), 5 (50Hz)		
S	Power Supply	L (Low 18-60 Vdc), H (High 90-315 Vac/Vdc)		
	Phase Current Inputs (I1, I2, I3)	1 (1 A), 5 (5 A)		
S	Ground Current Input (Ig)	H4 (4 LEA-High or VT 300 Vac Max), L4 (4 LEA-Low 12 Vac Max), X4 ((3) LEA-Low 12 Vac Max and (1) LEA-High or VT 300 Vac Max)		
	Voltage Inputs	H6 ((6) LEA-High or VT 300 Vac Max), L6 ((6) LEA-Low 12 Vac Max)		
		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)		
		SH ((4) Configurable HV Inputs 180~300 Vdc, 180-280 Vac, and (4) Configurable Dry Type Outputs)		
	EL ((8) Additional LV Inputs 9~180V AC/DC, and (8) Additional Dry Type Outputs)			
	EH ((8) Additional HV Inputs 180~300 Vdc, 180-280 Vac, and (8) Additional Dry Type Outputs)			
Optional Protocols	CSR	0 None, X Customer Specific Requirements		
	PORT 4	0 Standard (DNP3.0 & MODBUS), 4 IEC 60870-5-104, 6 IEC 61850 (Requires an Ethernet port), 9 IEC 61850 + IEC 60870-5-104 (Requires an Ethernet port)		
		PORT 2/ PORT 3	00 None (none/none), C0 1 x RJ-45 10/100 Mbps Ethernet Port (RJ-45/none), F0 1 x ST Fiber Optic Port 100 Base-FX (FO/none), CC 2 x RJ-45 10/100Mbps Ethernet Port (RJ-45/RJ-45), CF 1 x RJ-45 10/100Mbps Ethernet Port + 1 x ST Fiber Optic Port 100 Base-FX (RJ-45/FO), FF 2 x ST Fiber Optic Port 100 Base-FX (FO/FO)	
PORT 1	0 None, 2 TIA-232 Port, 4 TIA-485 Port, S Serial Fiber Optic ST Port, V Serial Fiber Optic V-pin Port, A Analog Output Module			
	Special Functions		0 None, A Multi-Shot Autoreclose (Three-Phase Ganged Operation), F Arc Flash Protection 4 AF Inputs + 4 HS Outputs, G Multi-Shot Autoreclose, Three-Phase Ganged plus Arc Flash Protection 4 AF Inputs + 4 HS Outputs	

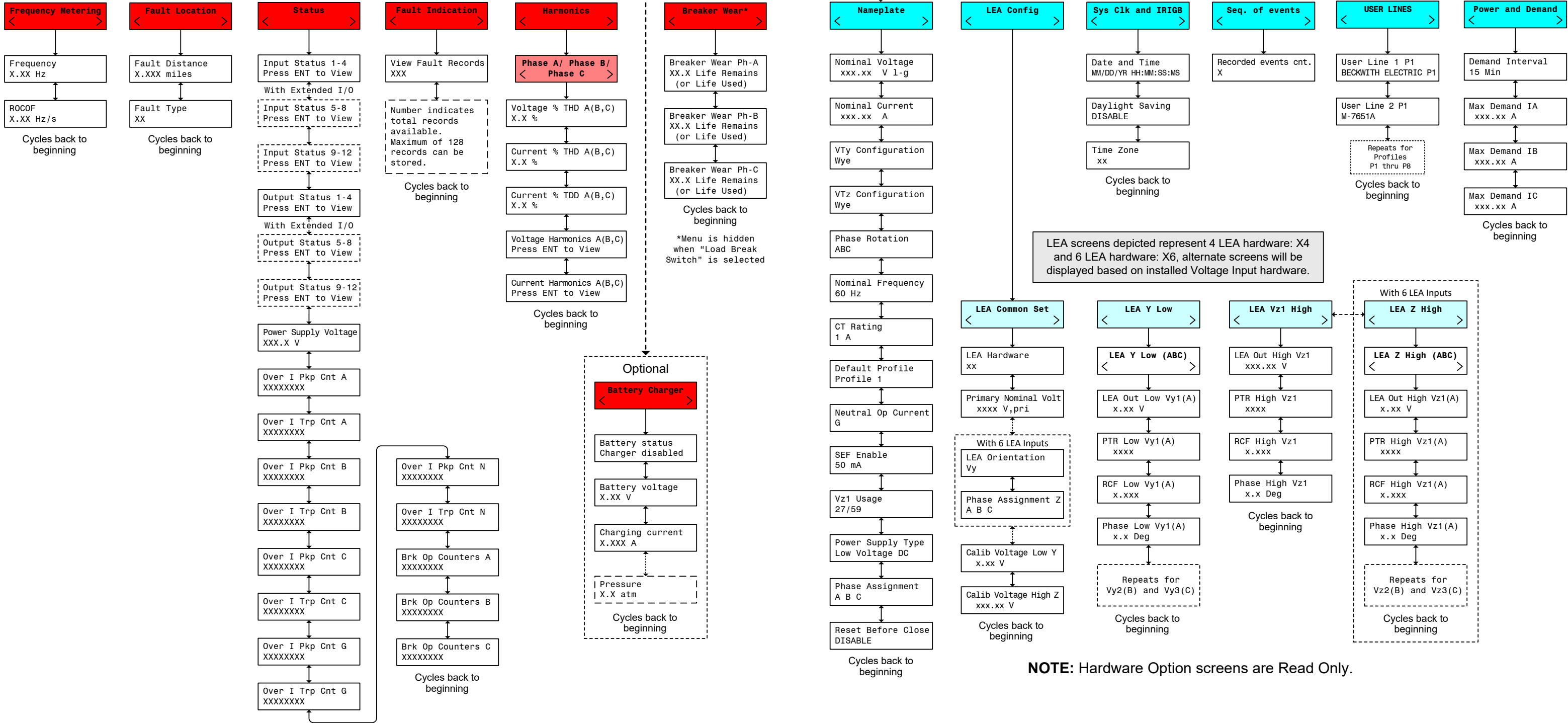
S = Standard  
 \$ = Optional With Price Adder  
 ◆ = Consult Factory



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

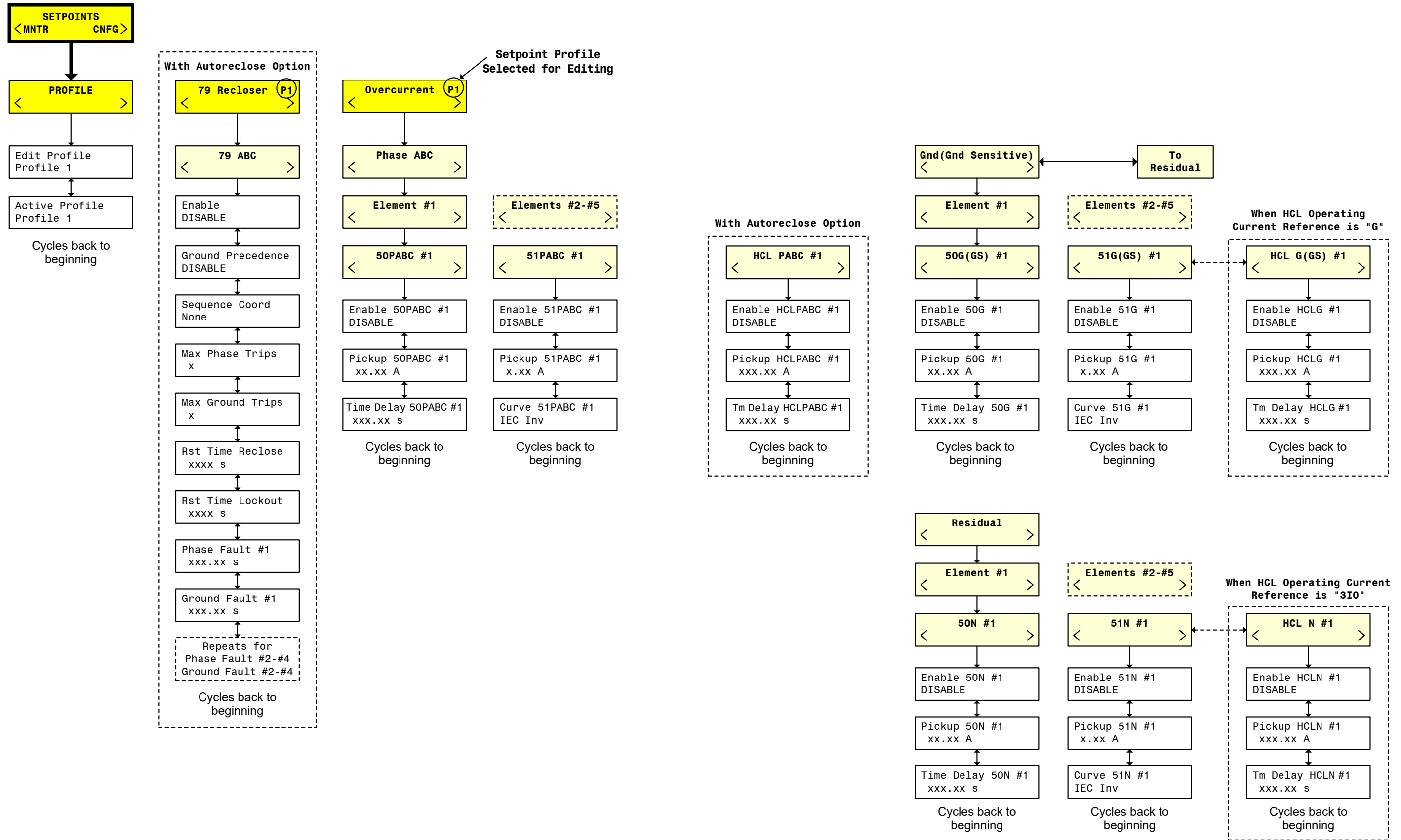
**NOTE: HMI menu items are available based on the control options purchased.**





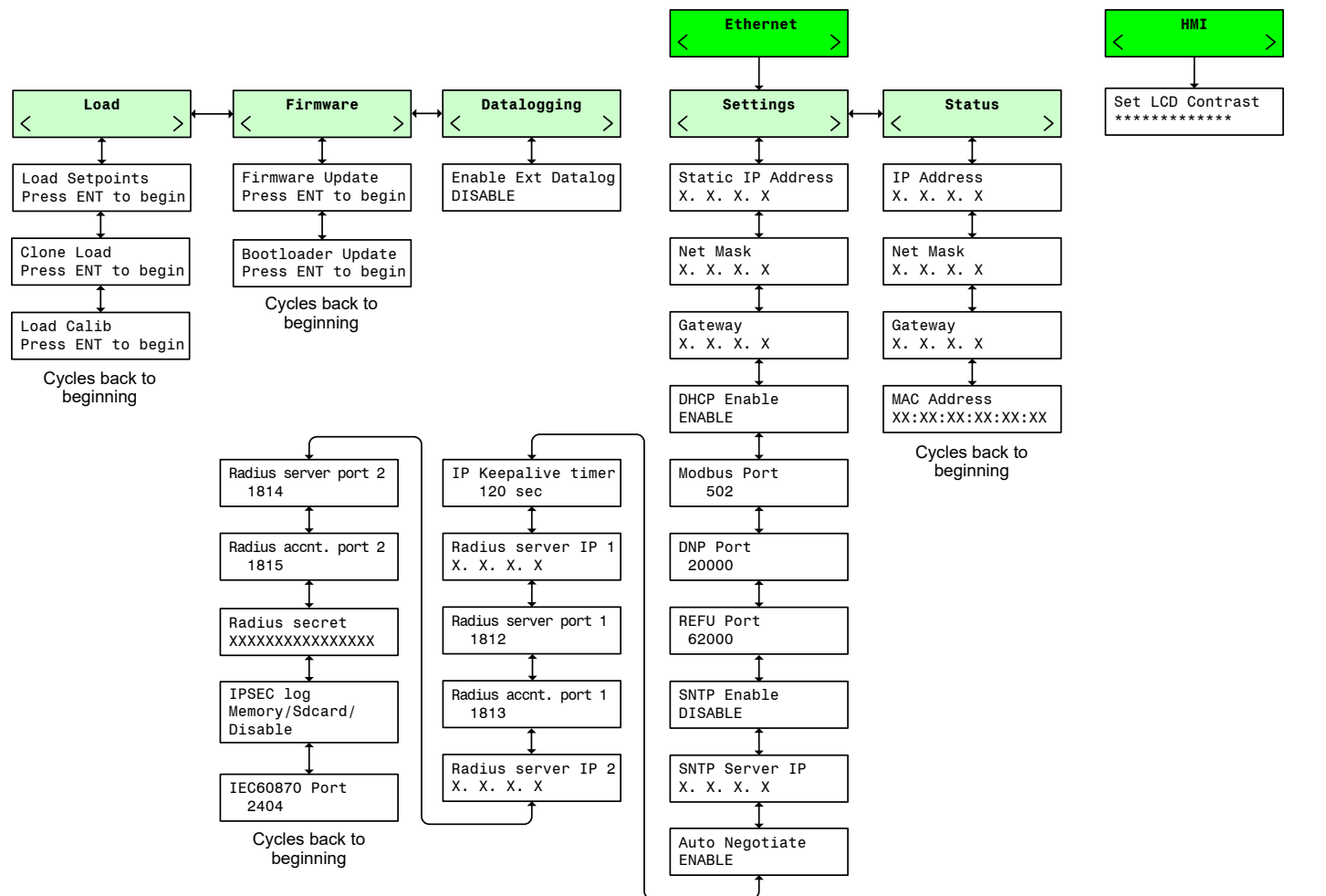
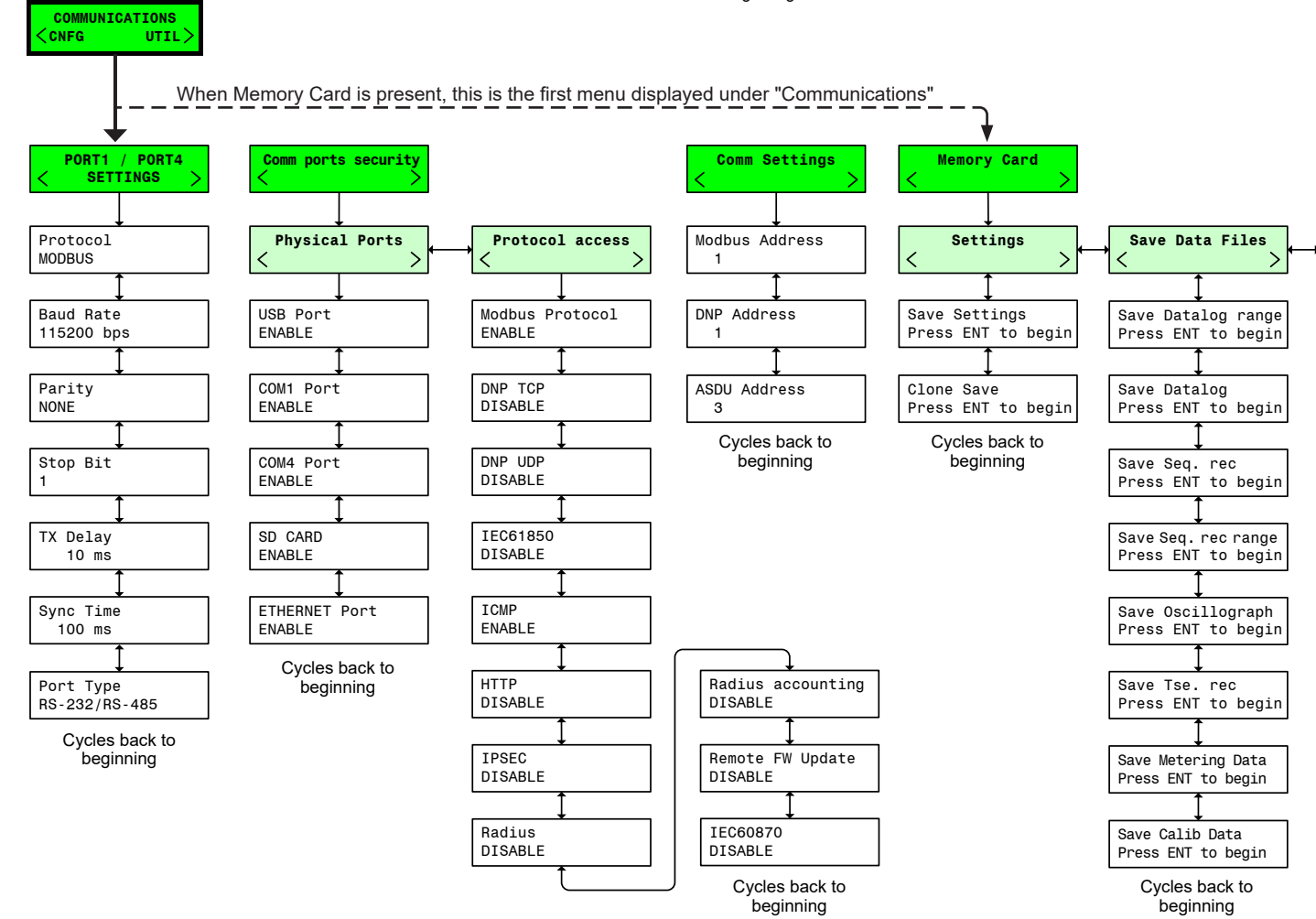
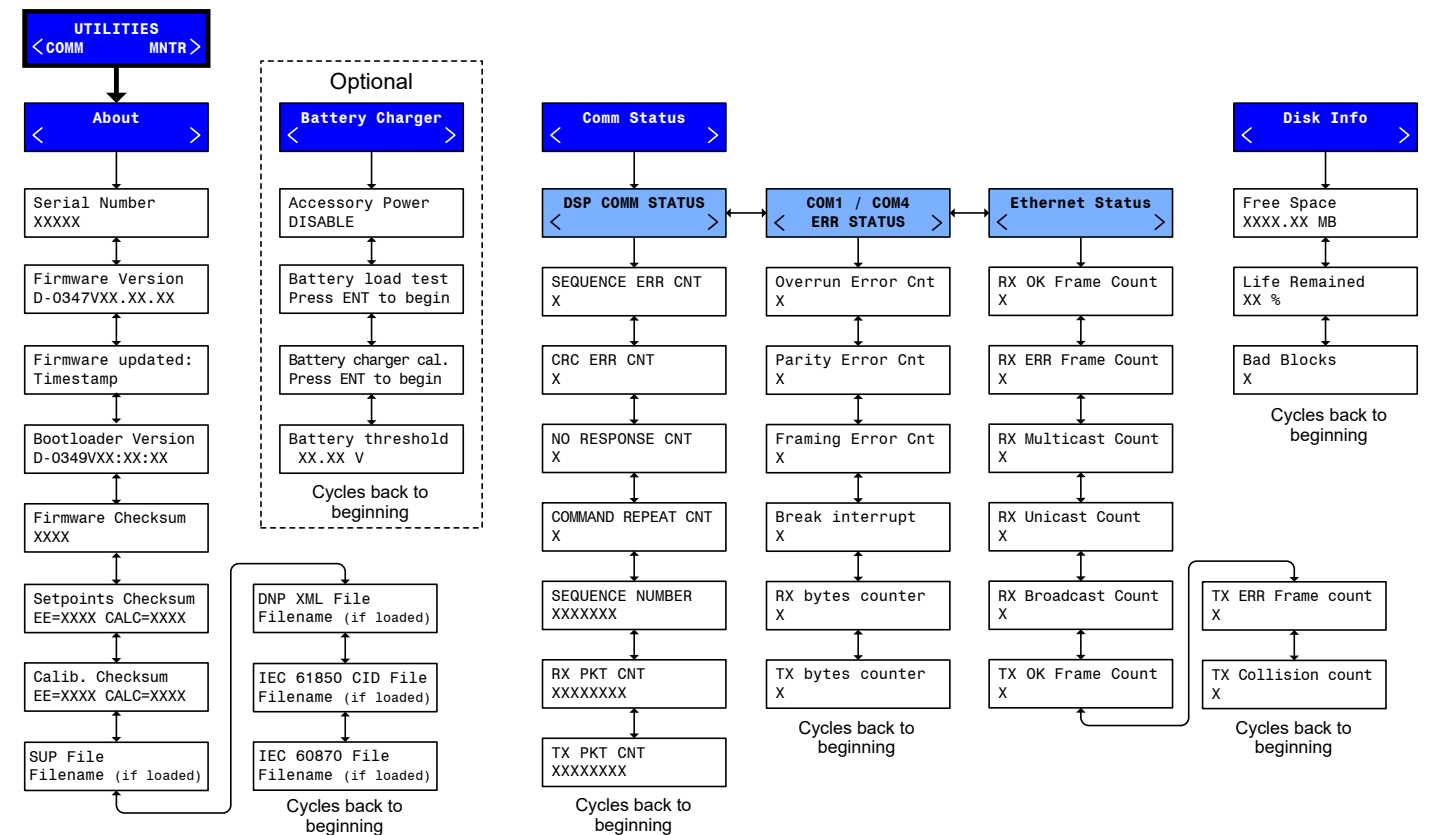
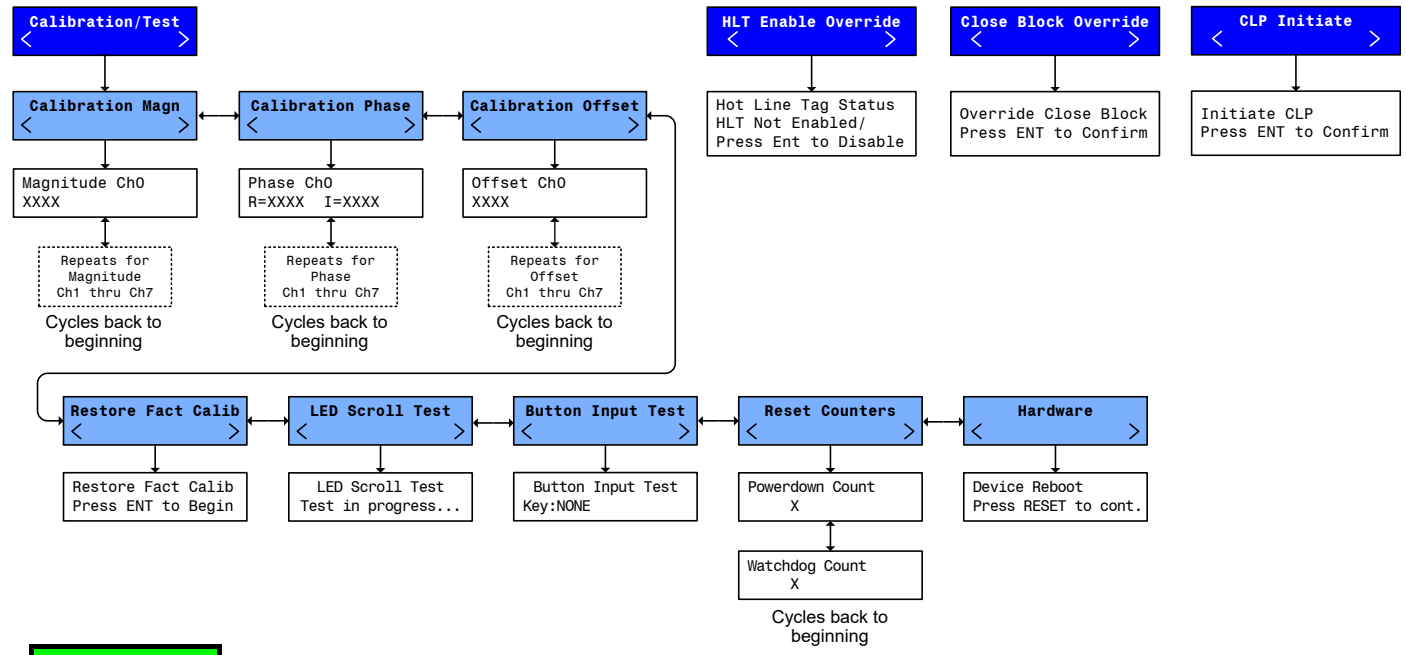
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Technical Support  
[www.beckwithelectric.com](http://www.beckwithelectric.com) / (727) 544-2326  
 Email Support: [beckwithelectricsupport@hubbell.com](mailto:beckwithelectricsupport@hubbell.com)

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