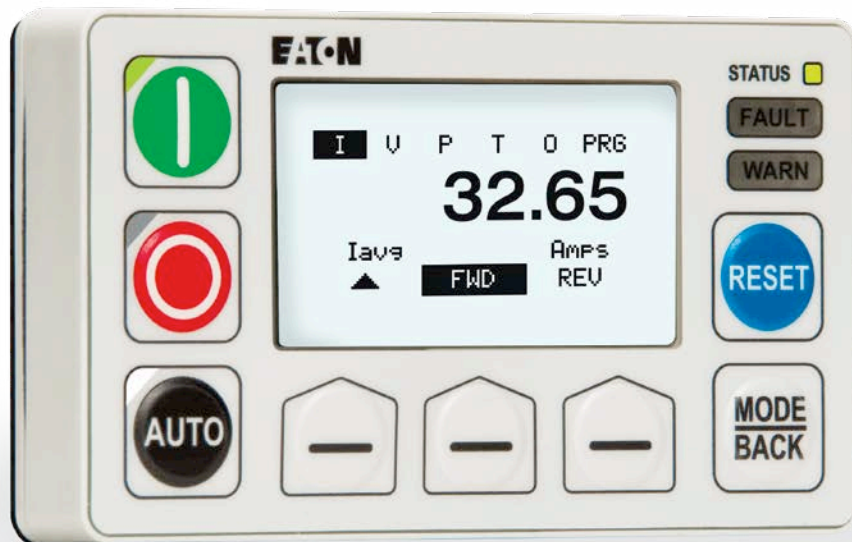


User interface intelligence made easy

Eaton's advanced Power Xpert C445 Motor Management Relay



Powering Business Worldwide

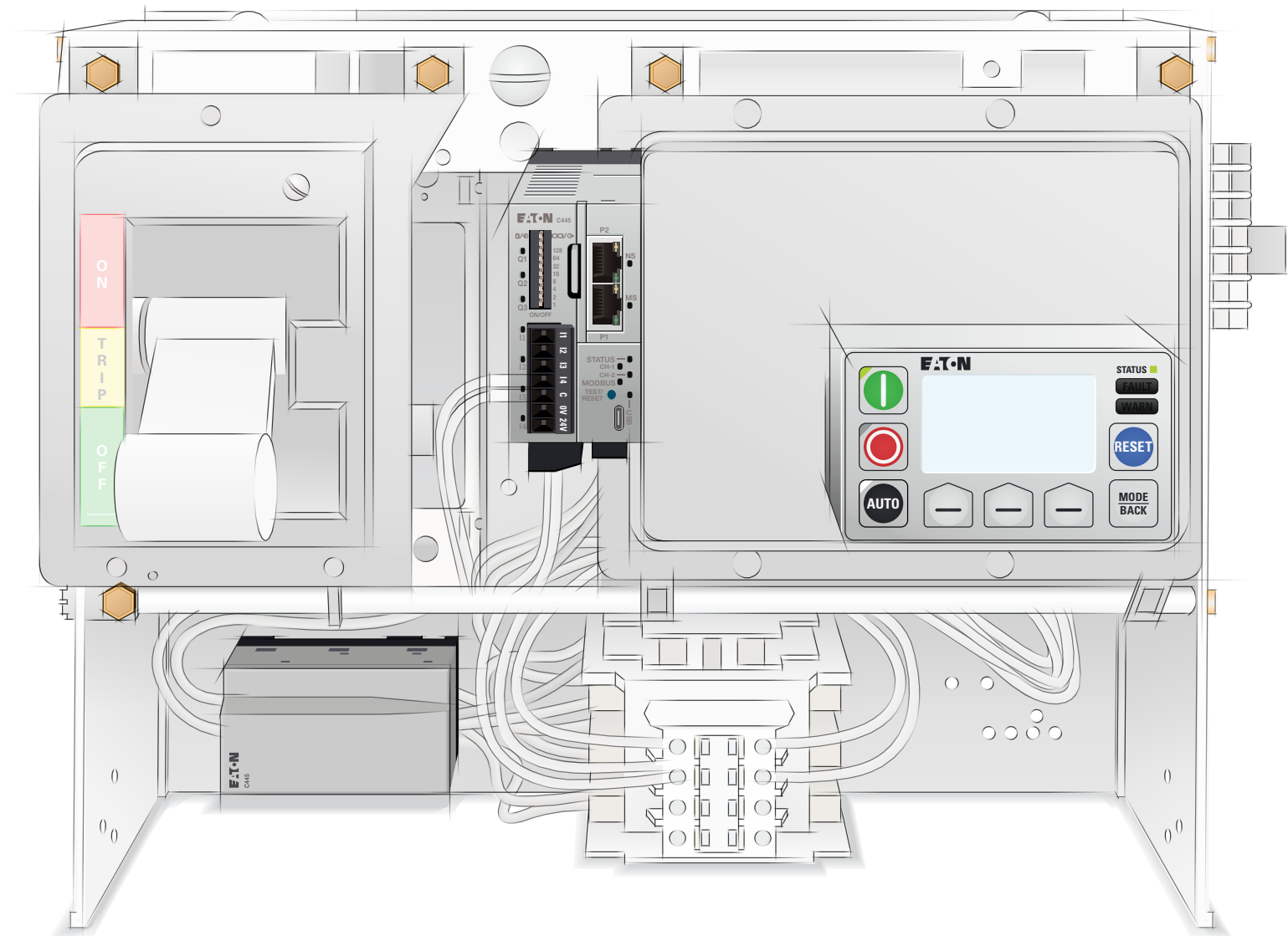
Easy means...



having a motor management relay that features line, load and motor protection, diagnostics, starter control operation modes, network connectivity and more in a simple and intuitive format. It also means having a user interface that takes the guesswork out of startup and makes light workout of system monitoring.

Here are some of the features that make this user interface easy:

- Simple mounting with standard pilot device holes for safe device access outside the motor control center door
- No fuss commissioning using Quick Start Wizard
- Monitor critical motor data without setting up a network or connecting a PC
- View and edit all protection, control, communication and user interface settings
- Set customizable trip and warning thresholds and delays for superior protection without nuisance trips
- Automatic fault identification helps address issues as they occur without the need to interpret cryptic fault codes
- Use optional control buttons as a simple local control source for any starter operation mode with no wiring required
- Standard micro USB port connects to Eaton's free PC tool, Power Xpert *inControl*. Upload and save configuration files for reuse and record keeping

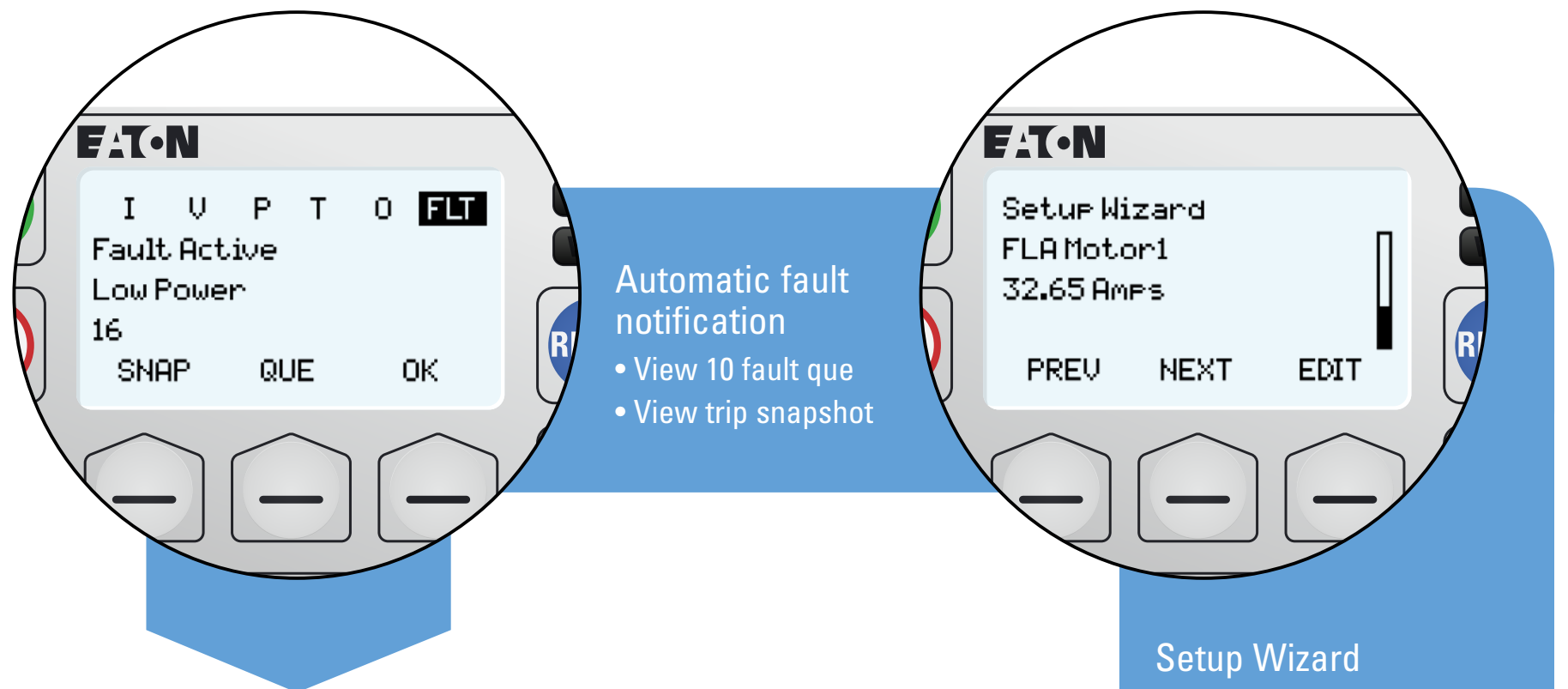


Simple and intuitive user interface

Power Xpert™ C445 remote mount user interface (C445UM)

Easy and safe monitoring, control and parameter setting

Door-mounted display enables safe and complete device diagnostics and parameter setting without opening the MCC door. Contextual LCD buttons provide intuitive navigation through monitoring menus. Optionally use control buttons for compact local control without the need for hardwiring.



Automatic fault notification

- View 10 fault que
- View trip snapshot

Setup Wizard

- Set basic parameters to get running

LED AND BUTTON CONTENTS

RUN 1
Contextual buttons select Fwd/Rev Sp1/Sp2

RUNNING LED 2
ON: Running
Flashing: Starting

STOP 1

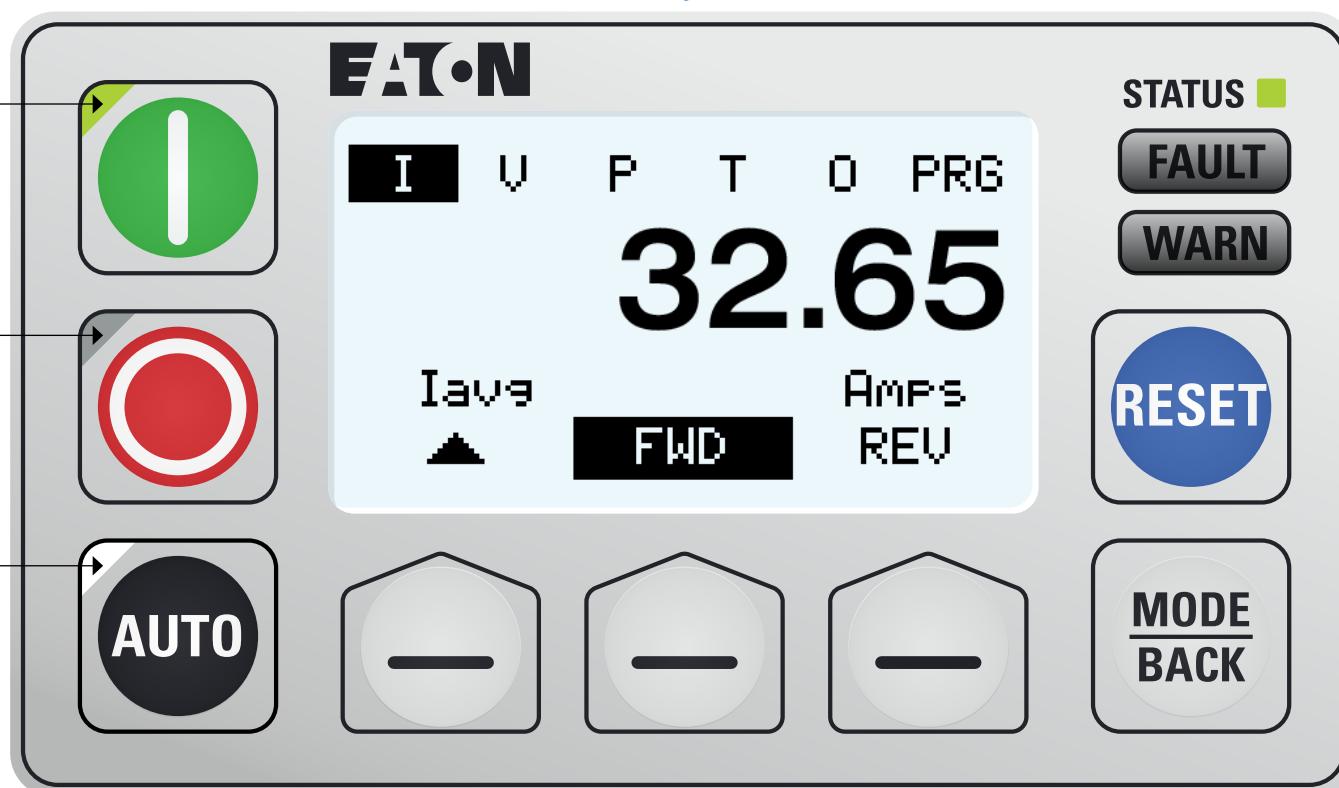
STOPPED LED 2
ON: Stopped
Flashing: Inhibited

AUTO 1
Gives control to remote control source

AUTO LED 2
ON: Controlled by remote source

Notes

- 1 **Control buttons:** Control buttons enabled if user interface is local control source. If fieldwire is local source, control buttons are disabled.
- 2 **Control status LEDs:** LEDs always function regardless of local control source type.



RESET FAULT

MODE/BACK

- Toggles through top menus
- Goes back within menus
- Press and hold to go back to main monitoring menu from multiple layers deep

CONTEXTUAL BUTTONS
Function based on LCD heading

Monitoring menus

Press <MODE/BACK> to toggle through.
Use ▲ to scroll through menu data.

I (Current)		
Avg Current (Iavg)	Current Unbalance (IUnb)	I Phase A (IA)
Iavg % of FLA (I%FLA)	Ground Fault Current (IGF)	I Phase B (IB)
		I Phase C (IC)
V (Voltage)		
Avg Voltage (Vavg)	Voltage L1-L2 (L1-L2)	
Voltage Unbalance (VUnb)	Voltage L2-L3 (L2-L3)	
Phase Order (Ph Ord)	Voltage L3-L1 (L3-L1)	
P (Power)		
Watts Total (P Watts)	VA Total (P VA)	Real Energy • (P kWh)
Power Factor (PF)	VARs Total (P VARs)	
T (Thermal)		
Thermal Capacity (TC)	Time to Reset (T to Rst)	PTC State (PTC)
O (Other)		
Run Time • (Run Time)	Frequency (Freq)	Operating Time • (Op Time)
# Motor Starts (#Starts)	RTC Time (RTC Time)	Contactors Ops Last Hr (Ctr Ops)
Max Starting I (MaxStart)	IP Address (IP Addr)	Speed RPM (Speed)
Last Start Time (LastStart)		

• Resettable parameter—users can reset to zero in PRG menu.

Program (PRG) menus groups

Control See active control source View digital input status View relay output status	Operation Mode Select operation mode, local/remote control sources Set comm loss/idle behavior Select output functions	System View View product details (serial number, firmware version, etc.)
Monitor Monitor voltage, current, power, system data (all monitoring values, not just favorites) Clear resettable monitor values	Faults and Events View active fault/warning/inhibit View or clear fault queue and trip snapshot	User Interface Settings Set screen idle behavior Contrast/brightness Set control button delays Change LED colors
Motor Configuration Set/view motor nameplate data (also in Quick Start)	Protections Enable/disable trips/warnings Customize protection thresholds and delays	Security Set passwords (local, admin, USB)
Wiring Configuration Set single-phase/three-phase Set CT ratios Set PT ratio	Real Time Clock Set time and time zone	Services Factory reset Soft reset Repair modules Launch Quick Start Wizard
External I/O Communication setup Mapping	Communications Configure Ethernet and Modbus settings (addresses, baud rate, advanced, etc.)	User Logic Local control Status Error information



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