# PXM 4/6/8K meter 6" color touchscreen display features



## **Contents**

D	esci	ription	Pag	JΕ
1	Inti	roduction		2
2	Ins	tallation		2
3	Usi	ing the touchscreen		2
	3.1	Basic navigation		2
	3.2	The Home screen		3
	3.3	The meter tab		4
	3.4	The Quality screen		4
	3.5	The I/O screen		7
	3.6	The Events screen		7
4	. Edi	ting the IP address	1	C



#### 1 Introduction

The Eaton PXM 4/6/8K meter 6" color touchscreen display (PXM468K-DISP-6-XV) is pre-programmed to communicate with Eaton PXM 4/6/8K meters. The programming allows access to data concerning the meter to which it is connected as well as power Quality, I/O (input/output), and Events.

The built-in navigation functions are simple and convenient and allow for easy navigation between the screens. It has been designed to display data, power quality, I/O (input/output), and events from a single Power Xpert 4/6/8K meter.

#### 2 Installation

For installation and connection information, please refer to "PXM 4/6/8K meter color touchscreen display quick starts guide" (Eaton Pub. #TD150029EN).

### 3 Using the touchscreen

#### 3.1 Basic navigation

Basic navigation between the screens is accomplished by touching the name of the screen or tab; the Back, Next, or Previous arrows; or the Home icon.

Touching a tab name or category area will take the user to the screen or category selected (see Figure 1).

Settings 습	PXM468	K-DISP-6-XV v2.0	F:T•N	
Voltage (L-L)	Avg	486.9	6 V	
Voltage (L-N)	Avg	281.2	1 V	
Current Avg		570.6	6 A	
Real Power		462.78 kW		
Reactive Pow	er	156.07 kVAR		
Apparent Pow	/er	478.35 kVA		
Power Factor		0.94 Lag		
Real Energy		6937633 kWh		
Meter	Quality	1/0	Events	
Meter	Quality	1/0	Events	

Figure 1. Navigating from the Home screen to the Meter, Quality, I/O, and Events screens.

Touching the Home icon, where available, will return the user to the Home screen.

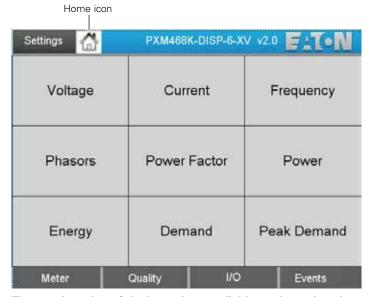


Figure 2. Location of the home icon available on the main subscreens.

Touching the "Back" arrow will return the user to the previous category screen. Touching the "Next" arrow will take the user to the next data screen. Touching the "Previous" arrow with take the user to the previous data screen.

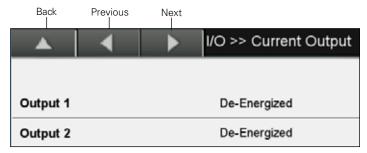


Figure 3. Location of the Back, Previous, and Next arrows.

#### 3.1.1 Accessing trend information

Trend information is accessed by touching the data for which trend information is desired.

**Note:** Tables 1, 2, and 3 identify all data for which trend information is available.

Vavg (L-N) data area to touch for trend information

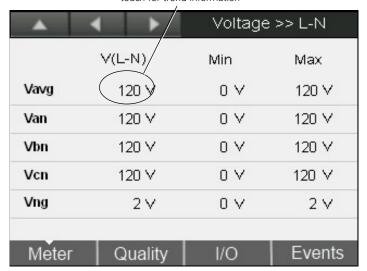


Figure 4. Selecting data to access trend information.

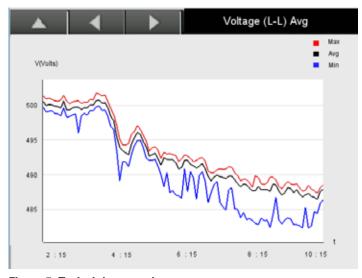


Figure 5. Typical data trend screen.

#### 3.2 The Home screen

The Home screen appears when power has been applied to the PXM 4/6/8K meter 6" color touchscreen display and boot-up is complete. The Home screen displays the main data for the meter to which it is connected. This data includes:

- Voltage (L-L) Avg (V);
- Voltage (L-N) Avg (V);
- Current Avg (A);
- Real Power (kW);
- Apparent Power (kVA);
- · Power Factor (Lead/Lag); and
- Real Energy (kWh).

**Note:** Trend information is available from the Home screen for all displayed data except Real Energy. To access the trend data, touch the touchscreen area corresponding to the data trend desired.



Figure 6. The Home screen.

In addition, the Home screen also gives the user direct access to the Meter, Quality, I/O, and Events screens. These are accessed by touching the tabs at the bottom of the screen.

#### 3.3 The meter tab

Touching the meter tab on the Home screen takes the user to the Meter screen. The categories of data available from the Meter screen are:

- Voltage;
- · Current;
- · Frequency;
- · Phasors;
- Power Factor;
- Power:
- · Energy;
- · Demand; and
- · Peak Demand.



Figure 7. The Meter screen.

For the data available for each category, the data, type of data, values, and available trend information, please refer to Table 1 . Data available from the Meter screen.

From the Meter screen, the user can navigate back to the Home screen by touching the Home icon (see Figure 2). The user can also navigate to the Quality, I/O, and Events screens by touching the appropriate screen tab (see Figure 1).

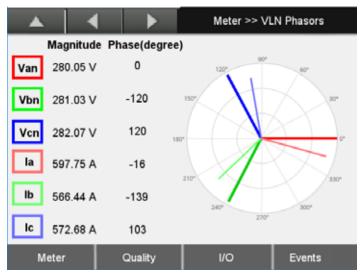


Figure 8. The Phasors screen.

#### 3.4 The Quality screen

Touching the "Quality" tab on the Home screen takes the user to the Quality screen. The categories of data available from the Quality screen are:

- · Factor;
- · Flicker:
- · THD Current; and
- THD Voltage.

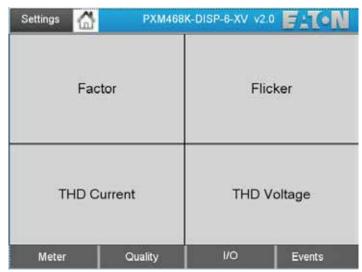


Figure 9. The Quality screen.

Table 1. Data available from the Meter screen.

Meter category	Data	Туре	Values	Trend available
Voltage	Voltage (L-L)	Vavg, Vab, Vbc, and Vca	Present, minimum, and maximum values	Yes
	Voltage (L-N)	Vavg, Van, Vbn, Vcn, and Vng	Present, minimum, and maximum values	Yes
	Voltage (Aux L-L)*	Vavg, Vab, Vbc, and Vca	Present, minimum, and maximum values	Yes
	Voltage (seq comp [sequence components])	ZERO-SEQ, POS-SEQ, NEG-SEQ		Yes
Current	I(RMS)	lavg, la, lb, lc, ln, and lg	Present, minimum, and maximum values	Yes
	I(seq comp [sequence components])	ZERO-SEQ, POS-SEQ, NEG-SEQ		Yes
Frequency	Frequency	Hz	Present, minimum, and maximum values	Yes
Phasors	Phasors	Va, Vb, and Vc	Magnitude and degree (with Phasor diagram)	
		la, lb, and lc	Magnitude and degree (with Phasor diagram)	
Power Factor	Displacement	System, phase A, phase B, and phase C	Present, minimum, and maximum	Yes
	Apparent	System, phase A, phase B, and phase C	Present, minimum, and maximum	Yes
Power	Real	Total, phase A, phase B, and phase C	Present	Yes
	Apparent	Total, phase A, phase B, and phase C	Present	Yes
	Reactive	Total, phase A, phase B, and phase C	Present	Yes
Energy	Real	Forward, reverse, net, and sum	Present	
	Apparent	Total	Present	
	Reactive	Received, delivered, net, and sum	Present	
Demand	Real	Forward, reverse, net, and sum	Present and peak today	
	Apparent	Total	Present	
	Reactive	Received, delivered, net, and sum	Present values	
	Amp	Average demand	Present and peak today	
Peak Demand	Real	Forward, reverse, net and sum	Peak since last reset and time of peak	
		Last reset	Date and time of last reset	
	Apparent	Total	Peak since last reset and time of peak	
		Last reset	Date and time of last reset	
	Reactive	Received, delivered, net, and sum	Present value and time of peak	
		Last Reset	Date and time of last reset	
	Amp	Average demand	Peak since last reset and time of peak	
		Last reset	Date and time of last reset	

<sup>\*</sup> For meters equipped with auxiliary voltage channels.

# Instruction Booklet IB150021EN Effective June 2019

For the data available for each category, the type of data, values, and available trend information, please refer to Table 2 – Data available from the Quality screen.

From the Quality screen, the user can navigate back to the Home screen by touching the Home icon (see Figure 2). The user can also navigate to the Meter, I/O, and Events screen by touching the appropriate screen tab (see Figure 1).

Table 2. Data available from the Quality screen.

Crest factor Phase A, phase B, and phase C Yes  ITIC factor Phase A, phase B, and phase C Yes  ITIC factor Phase A, phase B, and phase C Yes  Perceptibility Total, AB, BC, CA, AN, BN, and CN Yes (except total)  PST Total, AB, BC, CA, AN, BN, and CN Yes (except total)  PLT Total, AB, BC, CA, AN, BN, and CN  HD Current Total amps Phase A, phase B, phase C, and neutral Yes  Odd amps Phase A, phase B, phase C, and neutral Yes  Even amps Phase A, phase B, phase C, and neutral Yes  Interharmonic amps Phase A, phase B, phase C, and neutral Yes  Total percentage Phase A, phase B, phase C, and neutral Yes  Even percentage Phase A, phase B, phase C, and neutral Yes  Interharmonic percentage Phase A, phase B, phase C, and neutral Yes  Interharmonic percentage Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes  Phase A, phase B, phase C, and neutral Yes	Quality category	Data	Values		Trend available
ITIC factor	Factor	K-factor	Phase A, phase B, and phase C		Yes
Finance         Perceptibility         Total, AB, BC, CA, AN, BN, and CN         Yes (except total)           PST         Total, AB, BC, CA, AN, BN, and CN         Yes (except total)           PUT         Total, AB, BC, CA, AN, BN, and CN         Yes           HD Current         Total amps         Phase A, Dasse B, phase C, and neutral         Yes           Even amps         Phase A, phase B, phase C, and neutral         Yes           Interfarmonic amps         Phase A, phase B, phase C, and neutral         Yes           Interfarmonic percentage         Phase A, phase B, phase C, and neutral         Yes           Even percentage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Phase A, phase B, phase C, and neutral         Yes           LD Voltage         Phase A, phase B, phase C, and neutral		Crest factor	Phase A, phase B, and phase C		Yes
PST   Total, AB, BC, CA, AN, BN, and CN   Yes (except total)		ITIC factor	Phase A, phase B, and phase C		Yes
PLT	Flicker*	Perceptibility	Total, AB, BC, CA, AN, BN, and CN		Yes (except total)
Total amps		PST	Total, AB, BC, CA, AN, BN, and CN		Yes (except total)
Ddd amps		PLT	Total, AB, BC, CA, AN, BN, and CN		
Even amps	THD Current	Total amps	Phase A, phase B, phase C, and neutral		Yes
Interharmonic amps		Odd amps	Phase A, phase B, phase C, and neutral		Yes
Total percentage         Phase A, phase B, phase C, and neutral         Yes           Odd percentage         Phase A, phase B, phase C, and neutral         Yes           Even percentage         Phase A, phase B, phase C, and neutral         Yes           Interharmonic percentage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Main L-L volts         Total volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Aux L-L volts         Total volts         AB, BC, and CA         Yes           Aux L-L volts         Total volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Main L-N volts         AB, BC, and CA         Yes           Total volts         AN, BN, and CN         Yes           Total volts         AN, BN, and CN         Yes           Total volts         AN, BN, and CN <td></td> <td>Even amps</td> <td>Phase A, phase B, phase C, and neutral</td> <td></td> <td>Yes</td>		Even amps	Phase A, phase B, phase C, and neutral		Yes
Odd percentage         Phase A, phase B, phase C, and neutral         Yes           Even percentage         Phase A, phase B, phase C, and neutral         Yes           Interharmonic percentage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Main L-I volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Aux L-I. volts         Total volts         AB, BC, and CA         Yes           Aux L-I. volts         Total volts         AB, BC, and CA         Yes           Aux L-I. volts         Total volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Interharmonic volts         AN, BN, and CN         Yes           Interharmonic volts         AN, BN, and CN         Yes           Percentage L-L         Total percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Percentage aux.         Total percentage         AB, BC, and CA         Yes		Interharmonic amps	Phase A, phase B, phase C, and neutral		Yes
Even percentage         Phase A, phase B, phase C, and neutral         Yes           HD Voltage         Main L-L volts         Total volts         AB, BC, and CA         Yes           HD Voltage         Main L-L volts         Total volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Aux L-L volts         Total volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CN         Yes           Even volts         AB, BC, and CN         Yes           Interharmonic volts         AB, BC, and CN         Yes           Percentage L-L         Total percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA		Total percentage	Phase A, phase B, phase C, and neutral		Yes
Interharmonic percentage		Odd percentage	Phase A, phase B, phase C, and neutral		Yes
HD Voltage   Main L-L volts   Total volts   AB, BC, and CA   Yes		Even percentage	Phase A, phase B, phase C, and neutral		Yes
HD Voltage   Main L-L volts   Total volts   AB, BC, and CA   Yes		Interharmonic percentage	Phase A, phase B, phase C, and neutral		Yes
Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Aux L-L volts         Total volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Main L-N volts         Total volts         AN, BN, and CN         Yes           Odd volts         AN, BN, and CN         Yes           Even volts         AN, BN, and CN         Yes           Interharmonic volts         AN, BN, and CN         Yes           Percentage L-L         Total percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and	THD Voltage	Main L-L volts		AB, BC, and CA	Yes
Interharmonic volts	-		Odd volts	AB, BC, and CA	Yes
Aux L-L volts         Total volts         AB, BC, and CA         Yes           Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Main L-N volts         Total volts         AN, BN, and CN         Yes           Odd volts         AN, BN, and CN         Yes           Even volts         AN, BN, and CN         Yes           Interharmonic volts         AN, BN, and CN         Yes           Percentage L-L         Total percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage </td <td></td> <td></td> <td>Even volts</td> <td>AB, BC, and CA</td> <td>Yes</td>			Even volts	AB, BC, and CA	Yes
Odd volts         AB, BC, and CA         Yes           Even volts         AB, BC, and CA         Yes           Interharmonic volts         AB, BC, and CA         Yes           Main L-N volts         Total volts         AN, BN, and CN         Yes           Odd volts         AN, BN, and CN         Yes           Even volts         AN, BN, and CN         Yes           Interharmonic volts         AN, BN, and CN         Yes           Odd percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Percentage aux.         Total percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage			Interharmonic volts	AB, BC, and CA	Yes
Even voltsAB, BC, and CAYesInterharmonic voltsAB, BC, and CAYesMain L-N voltsTotal voltsAN, BN, and CNYesOdd voltsAN, BN, and CNYesEven voltsAN, BN, and CNYesInterharmonic voltsAN, BN, and CNYesPercentage L-LTotal percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage auxTotal percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage L-NTotal percentageAB, BC, and CNYesOdd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes		Aux L-L volts	Total volts	AB, BC, and CA	Yes
Interharmonic volts			Odd volts	AB, BC, and CA	Yes
Main L-N volts         Total volts         AN, BN, and CN         Yes           Odd volts         AN, BN, and CN         Yes           Even volts         AN, BN, and CN         Yes           Interharmonic volts         AN, BN, and CN         Yes           Percentage L-L         Total percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Percentage aux.         Total percentage         AB, BC, and CA         Yes           Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Percentage L-N         Total percentage         AN, BN, and CN         Yes           Odd percentage         AN, BN, and CN         Yes           AN, BN, and CN         Yes         AN, BN, and CN         Yes			Even volts	AB, BC, and CA	Yes
Odd voltsAN, BN, and CNYesEven voltsAN, BN, and CNYesInterharmonic voltsAN, BN, and CNYesPercentage L-LTotal percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage aux.Total percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage L-NTotal percentageAN, BN, and CNYesOdd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes			Interharmonic volts	AB, BC, and CA	Yes
Even voltsAN, BN, and CNYesInterharmonic voltsAN, BN, and CNYesPercentage L-LTotal percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage aux.Total percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage L-NTotal percentageAN, BN, and CNYesOdd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes		Main L-N volts	Total volts	AN, BN, and CN	Yes
Interharmonic volts AN, BN, and CN Yes  Percentage L-L  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Percentage aux.  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Percentage L-N  Total percentage AN, BN, and CN Yes  Odd percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes			Odd volts	AN, BN, and CN	Yes
Percentage L-L  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Percentage aux.  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Fercentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Percentage L-N  Total percentage AN, BN, and CN Yes  Odd percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes			Even volts	AN, BN, and CN	Yes
Odd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage aux.Total percentageAB, BC, and CAYesOdd percentageAB, BC, and CAYesEven percentageAB, BC, and CAYesInterharmonic percentageAB, BC, and CAYesPercentage L-NTotal percentageAN, BN, and CNYesOdd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes			Interharmonic volts	AN, BN, and CN	Yes
Even percentage AB, BC, and CA Yes Interharmonic percentage AB, BC, and CA Yes  Percentage aux.  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Percentage L-N  Total percentage AN, BN, and CN Yes  Odd percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes		Percentage L-L	Total percentage	AB, BC, and CA	Yes
Interharmonic percentage AB, BC, and CA Yes  Percentage aux.  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  Percentage L-N  Total percentage AN, BN, and CN Yes  Odd percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes			Odd percentage	AB, BC, and CA	Yes
Percentage aux.  Total percentage AB, BC, and CA Yes  Odd percentage AB, BC, and CA Yes  Even percentage AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  AB, BC, and CA Yes  AB, BC, and CA Yes  Interharmonic percentage AB, BC, and CA Yes  AB, BC, and CA Yes  Even percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes			Even percentage	AB, BC, and CA	Yes
Odd percentage         AB, BC, and CA         Yes           Even percentage         AB, BC, and CA         Yes           Interharmonic percentage         AB, BC, and CA         Yes           Percentage L-N         Total percentage         AN, BN, and CN         Yes           Odd percentage         AN, BN, and CN         Yes           Even percentage         AN, BN, and CN         Yes			Interharmonic percentage	AB, BC, and CA	Yes
Even percentage AB, BC, and CA Yes Interharmonic percentage AB, BC, and CA Yes  Percentage L-N Total percentage AN, BN, and CN Yes  Odd percentage AN, BN, and CN Yes  Even percentage AN, BN, and CN Yes		Percentage aux.	Total percentage	AB, BC, and CA	Yes
Interharmonic percentage AB, BC, and CA Yes  Percentage L-N Total percentage AN, BN, and CN Yes Odd percentage AN, BN, and CN Yes Even percentage AN, BN, and CN Yes			Odd percentage	AB, BC, and CA	Yes
Percentage L-N Total percentage AN, BN, and CN Yes Odd percentage AN, BN, and CN Yes Even percentage AN, BN, and CN Yes			Even percentage	AB, BC, and CA	Yes
Odd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes			Interharmonic percentage		Yes
Odd percentageAN, BN, and CNYesEven percentageAN, BN, and CNYes		Percentage L-N	Total percentage	AN, BN, and CN	Yes
Even percentage AN, BN, and CN Yes			Odd percentage		Yes
Interharmonic percentage AN, BN, and CN Yes					Yes
			Interharmonic percentage	AN, BN, and CN	Yes

<sup>\*</sup> PXM 6000 and above.

#### 3.5 The I/O screen

Touching the "I/O" (Input/Output) tab on the Home screen takes the user to the I/O screen. The categories of data available from the I/O screen are:

- · Current Input Status and
- · Current Output Status.



Figure 10. The I/O screen.

For the data available for each category, the type of data, values, and available trend information, please refer to Table 3 – Data available from the I/O screen.

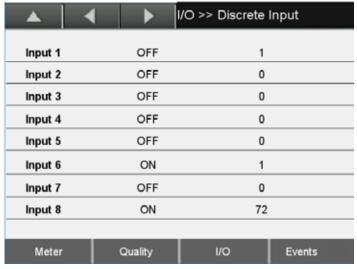


Figure 11. The Inputs screen.

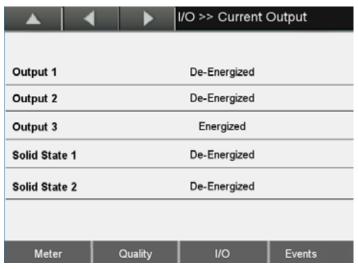


Figure 12. The Outputs screen.

Table 3. Data available from the I/O screens.

I/O category	Data	Туре	Values	Trend available
Current Input Status	Current Inputs	Inputs 1 through 8	Status and Count	
Current Output Status	Current Outputs	Output 1 through 3	Status	
		Solid State 1 and 2	Status	

From the I/O screen, the user can navigate back to the Home screen by touching the Home icon (see Figure 2). The user can also navigate to the Meter, Quality, and Events screen by touching the appropriate screen tab (see Figure 1).

#### 3.6 The Events screen

Touching the "Events" tab on the Home screen takes the user to the Events screen 1. There are five events screens. Each Events screen can display four events for a total of 20 events recorded.

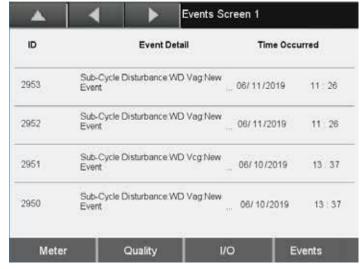


Figure 13. Typical Events screen (Events screen 1 shown).

Each event has an ID (identification number), short event detail, and the time the event occurred (see Table 4). Each event may also be viewed in a separate window displaying the event ID, when the event occurred, and a long event message. The Event Message screens are accessed by touching the Event Detail tab for the event listed on the Events screens.

Table 4. Event information available on the Events screens.

Event	Туре	Information	Associated event message screen
Events screen 1 through 5	Messages (Up to 4)	Event ID Event Detail (Short) Time Occurred	Event ID Event Message (Long) Event Occurred (Time)

The event triggers for the PXM 4/6/8K meter 6" color touchscreen display are listed in Table 5.

Table 5. Event triggers.

Screen	Category	Item	Event trigger
Meter	Voltage	Line-line	System AB - upper and lower BC - upper and lower CA - upper and lower
		Line-neutral	System AN - upper and lower BN - upper and lower CN - upper and lower NG - upper and lower
		Aux line-line	System AB - upper and lower BC - upper and lower CA - upper and lower
		Symmetric components	VO - upper zero sequence component V1 - upper positive sequence component V2 - upper negative sequence component
	Current	Average - upper	
		Phase A - upper	
		Phase B - upper	
		Phase C - upper	
		Neutral - upper	
		Ground - upper	
		Symmetric components	<ul><li>10 - upper zero sequence component</li><li>11 - upper positive sequence component</li><li>12 - upper negative sequence component</li></ul>
		Current unbalance - upper	
	Frequency	Upper and lower	
Power	Real	System - upper	
		Phase A - upper	
		Phase B - upper	
		Phase C - upper	
	Reactive	System - upper	
		Phase A - upper	
		Phase B - upper	
		Phase C - upper	
	Apparent	System - upper	
		Phase A - upper	
		Phase B - upper	
		Phase C - upper	
	Power Factor	Apparent	System - leading and lagging Phase A - Leading and lagging Phase B - Leading and lagging Phase C - Leading and lagging
		Displacement	System - leading and lagging Phase A - leading and lagging Phase B - leading and lagging Phase C - leading and lagging

Table 5. Event triggers (Cont.)

Screen	Category	Item	Event trigger
Quality	THD Voltage	Line - line	System Phase AB - upper and lower Phase BC - upper and lower Phase CA - upper and lower
		Line-neutral	System Phase AN - upper and lower Phase BN - upper and lower Phase CN - upper and lower
	THD Current	System - upper Phase A - upper Phase B - upper Phase C - upper	
	Flicker Perceptibility*	Line - line	System Phase AB - upper and lower Phase BC - upper and lower Phase CA - upper and lower
		Line - neutral	System Phase AN - upper and lower Phase BN - upper and lower Phase CN - upper and lower
Demand Overload	Real Power Forward Real Power Reverse Real Power Net Real Power Sum Real Power Delivered Real Power Received Reactive Power Net Reactive Power Sum VA Current		
ITIC*	L2 Sags L4 Sags L8 Sags L2 Swells L4 Swells L8 Swells		
Sub-cycle Disturbance	dV/dt Threshold Absolute Threshold		
Fast Transient**	Vag dV/dt Vag Absolute Vbg dV/dt Vbg Absolute Vcg dV/dt Vcg Absolute Vrg Absolute Vng dV/dt Vng Absolute		
SEMI F47	Sags		
Discrete Inputs	Status		
Manual captures			
Meter access (Log-in, log-out, Access of IP address)			

From Events screens 1 through 5, the user can navigate to the Meter, Quality, and I/O screens by touching the appropriate screen tab (see Figure 1).

**Note:** The user can not go directly from any Events screens to the Home screen. The user must first access the Meter, Quality, or I/O screens then return to the Home screen.

<sup>\*</sup> PXM 6000 and above. \* PXM 8000.

# 4. Editing the IP address

The PXM 4/6/8K meter 6" color touchscreen display has the ability to set the meter's IP address.

Touching the Settings button brings up the meter's device information. Touching the Ethernet button provides a view on Ethernet settings. The LAN IP address, subnet mask and default gateway can be edited. (The address will not be prepopulated.)

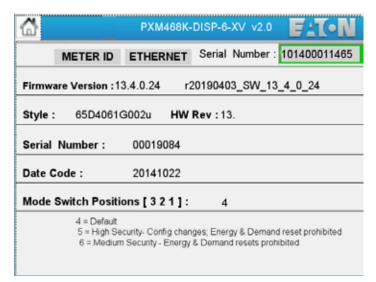


Figure 14. Setting the meter's IP address (screen 1).

<b>A</b>	LAN / Ethernet Info		
Local MAC Address :	00:d0:af:07:97:12		
Local IP Address :	192.168.1.1		
Local Subnet Mask :	255.255.255.0		
LAN MAC Address :	00:d0:af:07:97:13		
DHCP: YES	Mode: Copper		
LAN IP Address :	166.99.88.32	Edit	
LAN Subnet Mask :	255.255.255.0	Edit	
Default Gateway :	166.99.88.250	Edit	

Figure 15. Setting the meter's IP address (screen 2).

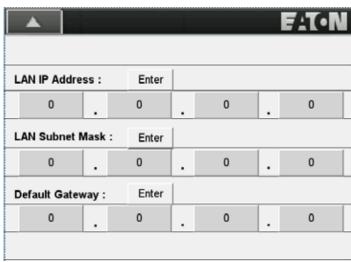


Figure 16. Setting the meter's IP address (screen 3).

PXM 4/6/8K r	meter 6"	color
touchscreen	display	features

Instruction Booklet IB150021EN
Effective June 2019

Notes:

# Instruction Booklet IB150021EN

Effective June 2019

PXM 4/6/8K meter 6" color touchscreen display features

The information, recommendations, descriptions, and safety notations in this document are based on Eaton's experience and judgment. This instructional literature is published solely for information purposes and should not be considered all-inclusive. If further information is required, you should consult an authorized Eaton sales representative.

The sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between the parties. This literature is not intended to and does not enlarge or add to any such contract. The sole source governing the rights and remedies of any purchaser of this equipment is the contract between the purchaser and Eaton.

NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OR WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ARE MADE REGARDING THE INFORMATION, RECOMMENDATIONS, AND DESCRIPTIONS CONTAINED HEREIN.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations and description contained herein.

The information contained in this manual is subject to change without notice.



Electrical Sector 1000 Eaton Boulevard Cleveland, OH 44122 United States 877-ETN-CARE (877-386-2273) Eaton.com



