

# Self-Enclosed Shark® Meter Assemblies

**For Multifunction Shark® 50, 50B,  
100, 100B, 200, or 250 Meters**

**NEMA 4X**  
Outdoor-rated  
Enclosure



**NEMA 1**  
Indoor-rated Enclosure



ELG's Shark® meter in enclosure lets you expand your switchgear capability without expensive and time-consuming redesign. Simply mount and wire the enclosure next to your switchgear and you are ready to go, with no downtime at all!

This is a perfect solution for a retrofit when there is no metering compartment available. The meter comes standard with a NEMA 1 indoor enclosure or a NEMA 4X outdoor enclosure, and is factory wired with the meter installed. Standard equipment includes voltage fuses, a shorting block for current transformers, and a control power transformer if used with 277/480 V power systems.

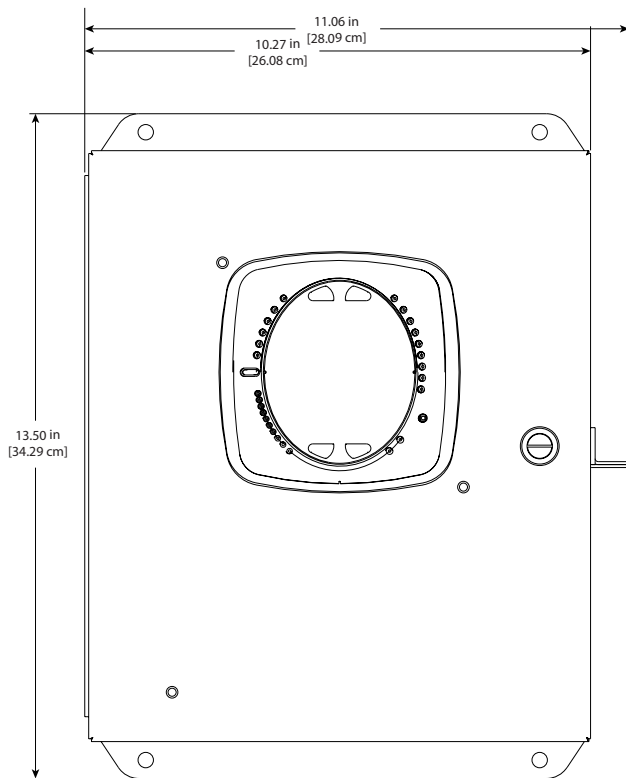
The enclosure can be ordered with either the economical Shark® 50 multifunction meter, the Shark® 50B meter with native BACnet MS/TP, the Shark® 100 multifunction meter, the Shark® 100B meter with native BACnet/IP, the Shark® 200 datalogging power and energy meter, or the Shark® 250 cyber secure meter with 0.1% energy measurement accuracy. It is offered in four voltage configurations:

- (120 - 240) V AC line powered enclosure.
- 277 - 277/480 V AC line powered enclosure.
- EXT24 - (18 - 60) V DC external powered enclosure.\*
- EXT120 - (120 - 240) V AC/DC external powered enclosure.
- For Retrofit Meter Solutions
- Extends Switchgear Capability
- Pre-wired and Configured
- Eliminates Wiring and Installation Errors

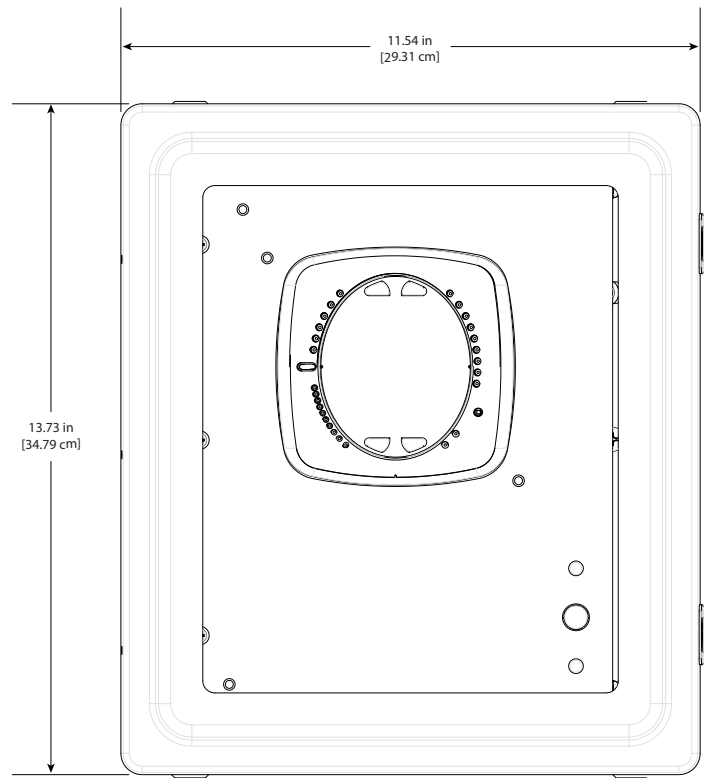
\* This configuration is not available for the Shark® 50/50B meter in enclosure.



# Dimensions



NEMA 1 FRONT DIMENSIONS



NEMA 4X FRONT DIMENSIONS

## Shark® 50 in Self-Enclosed Meter Assembly

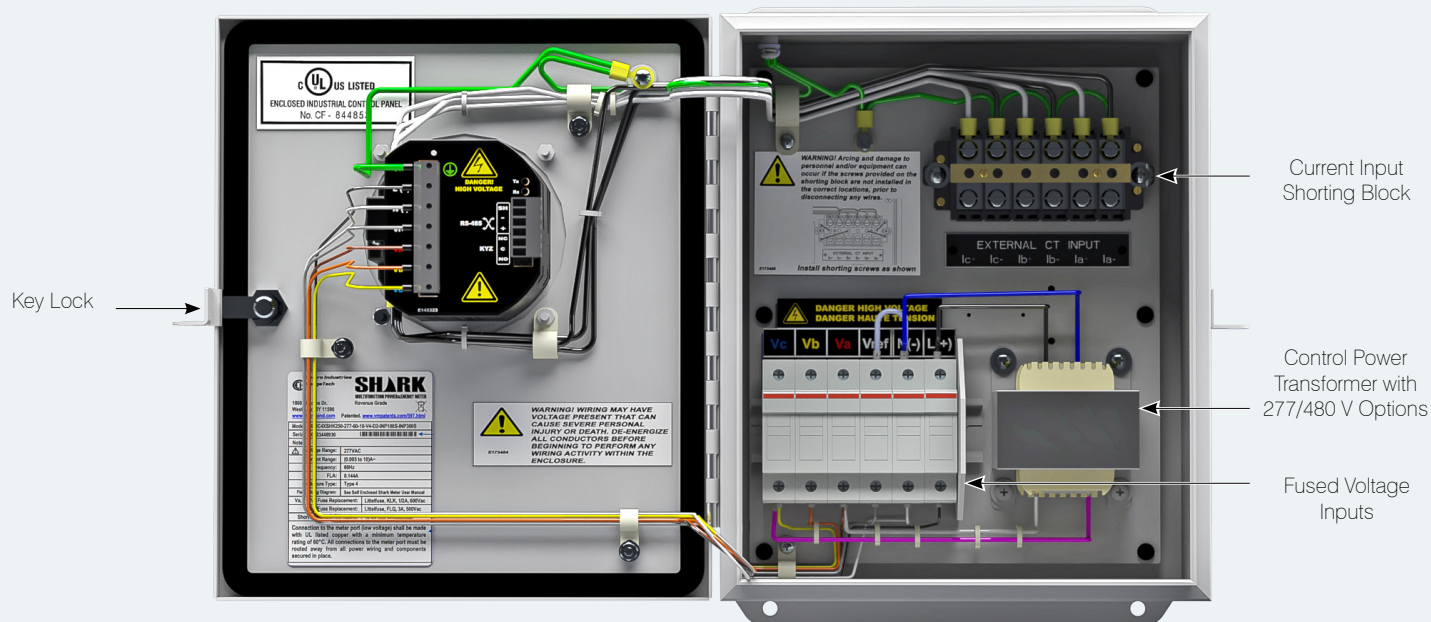
Ordering Information - All fields must be filled in to create a valid part number.

	Model	Voltage	V-Switch™ Pack	Communication
Option Numbers:	-	-	-	-
Example:	ENC5HK50	277	V2	485P
	<b>ENC5HK50</b> Shark® 50 in NEMA 1 Enclosure	<b>120</b> (120 - 240) V AC Line Powered	<b>V1</b> Voltage/Current	<b>X</b> None
	<b>ENC4XSHK50</b> Shark® 50 in NEMA 4X Enclosure	<b>277</b> 277/480 V AC Line Powered	<b>V2</b> V1 + Power and Frequency	<b>485P</b> RS485 and KYZ Pulse Output
		<b>EXT120</b> (90 - 265) V AC @ 50/60 Hz or (100 - 370) V DC External Powered	<b>V3</b> V2 + Energy Counters	

## Shark® 50B in Self-Enclosed Meter Assembly

Ordering Information - All fields must be filled in to create a valid part number.

	Model	Voltage
Option Numbers:	-	-
Example:	ENC5HK50B	277
	<b>ENC5HK50B</b> Shark® 50B in NEMA 1 Enclosure	<b>120</b> (120 - 240) V AC Line Powered
	<b>ENC4XSHK50B</b> Shark® 50B in NEMA 4X Enclosure	<b>277</b> 277/480 V AC Line Powered
		<b>EXT120</b> (90 - 265) V AC @ 50/60 Hz or (100 - 370) V DC External Powered



NEMA 1 INTERIOR

## Shark® 100 in Self-Enclosed Meter Assembly

Ordering Information - All fields must be filled in to create a valid part number.

	Model	Voltage	Frequency	Current Input	V-Switch™ Pack	Power Supply	Communication
Option Numbers:	-	-	-	-	-	-	-
Example:	ENC5HK100	277	60	10	V2	D2	485P
	<b>ENC5HK100</b> Shark® 100 in NEMA 1 Enclosure	<b>120</b> (120 - 240) V AC Line Powered	<b>50</b> 50 Hz System	<b>10</b> 5 A Nominal CT Secondary	<b>V1</b> Voltage/Current	<b>D2</b> Universal, (90 - 265) V AC @50/60 Hz or (100 - 370) V DC	<b>X</b> None
	<b>ENC4XSHK100</b> Shark® 100 in NEMA 4X Enclosure	<b>277</b> 277/480 V AC Line Powered	<b>60</b> 60 Hz System	<b>2</b> 1 A Nominal CT Secondary	<b>V2</b> V1 + Power and Frequency	<b>*D</b> (18 - 60) V DC	<b>485P</b> RS485 and KYZ Pulse Output
		<b>EXT120</b> (90 - 265) V AC @ 50/60 Hz or (100 - 370) V DC External Powered			<b>V3</b> V2 + DNP3 and Energy Counters		<b>INP10</b> 100BaseT Ethernet and KYZ Pulse Output
		<b>*EXT120</b> (18 - 60) V DC External Powered			<b>V4</b> V3 + THD and Limits		

\* These two options must be ordered together.

## Shark® 100B in Self-Enclosed Meter Assembly

Ordering Information - All fields must be filled in to create a valid part number.

	Model	Voltage	Frequency	Current Input	Power Supply
Option Numbers:	-	-	-	-	-
Example:	ENC5HK100B	277	60	10	D2
	<b>ENC5HK100B</b> Shark® 100B in NEMA 1 Enclosure	<b>120</b> (120 - 240) V AC Line Powered	<b>50</b> 50 Hz System	<b>10</b> 5 A Nominal CT Secondary	<b>D2</b> Universal, (90 - 265) V AC @50/60 Hz or (100 - 370) V DC
	<b>ENC4XSHK100B</b> Shark® 100B in NEMA 4X Enclosure	<b>277</b> 277/480 V AC Line Powered	<b>60</b> 60 Hz System	<b>2</b> 1 A Nominal CT Secondary	<b>*D</b> (18 - 60) V DC
		<b>EXT120</b> (90 - 265) V AC @ 50/60 Hz or (100 - 370) V DC External Powered			
		<b>*EXT120</b> (18 - 60) V DC External Powered			

\* These two options must be ordered together.

# Shark® 200/250 in Self-Enclosed Meter Assembly

Ordering Information - All fields must be filled in to create a valid part number.

	Model	Voltage	Frequency	Current Input	V-Switch™ Pack	Power Supply	I/O Slot 1	I/O Slot 2
Option Numbers:	-	-	-	-	-	-	-	-
Example:	ENC4XSHK200	277	60	10	V2	D2	X	X
	<b>ENC4XSHK200</b> Shark® 200 in NEMA 4X Enclosure	<b>120</b> (120 - 240) V AC Line Powered	<b>50</b> 50 Hz System	<b>10</b> 5 A Nominal CT Secondary	<b>200</b>	<b>D2</b> Universal, (90 - 265) V AC @50/60 Hz or (100 - 370) V DC	<b>X</b> None	<b>X</b> None
	<b>ENC4XSHK200</b> Shark® 200 in NEMA 4X Enclosure	<b>277</b> 277/480 V AC Line Powered	<b>60</b> 60 Hz System	<b>2</b> 1 A Nominal CT Secondary	<b>V1</b> Multifunction Measurement	<b>*D</b> (18 - 60) V DC	<b>INP100S</b> 10/100BaseT Ethernet	<b>INP100S</b> 10/100BaseT Ethernet
	<b>ENC4XSHK250</b> Shark® 250 in NEMA 4X Enclosure	<b>EXT120</b> (90 - 265) V AC @ 50/60 Hz or (100 - 370) V DC External Powered			<b>V2</b> V1 + Standard Datalogging Memory		<b>***RO1S</b> 2 Relay Outputs/ 2 Status Inputs	<b>***RO1S</b> 2 Relay Outputs/ 2 Status Inputs
	<b>ENC4XSHK250</b> Shark® 250 in NEMA 4X Enclosure	<b>*EXT24</b> (18 - 60) V DC External Powered			<b>V3</b> V2 + Power Quality Harmonics		<b>PO1S</b> 4 Pulse Outputs/ 4 Status Inputs	<b>PO1S</b> 4 Pulse Outputs/ 4 Status Inputs
					<b>V4</b> V3 + Limits and Control Functions		<b>1mAOS</b> 4 Channel Analog Output 0-1 mA (Bidirectional)	<b>1mAOS</b> 4 Channel Analog Output 0-1 mA (Bidirectional)
					<b>V5</b> V4 + 3 MB Datalogging Memory and 64 Samples/ Cycle Waveform Recorder		<b>20mAOS</b> 4 Channel Analog Output 4-20 mA	<b>20mAOS</b> 4 Channel Analog Output 4-20 mA
					<b>V6</b> V4 + 4 MB Datalogging Memory and 512 Samples/ Cycle Waveform Recorder		<b>FOSTS</b> Fiber Optic Output ST Terminated	<b>FOSTS</b> Fiber Optic Output ST Terminated
					<b>250</b>		<b>FOVPS</b> Fiber Optic Output Versatile Link Terminated	<b>FOVPS</b> Fiber Optic Output Versatile Link Terminated
					<b>V1</b> Multifunction Measurement		<b>INP300S</b> IEC 61850 Protocol Ethernet	<b>INP300S</b> IEC 61850 Protocol Ethernet
					<b>V2</b> V1 + 2 MB Standard Datalogging Memory		<b>**RS1S</b> RS232/RS485 Comm Card	<b>**RS1S</b> RS232/RS485 Comm Card
					<b>V3</b> V2 + 10 MB Memory and 128 Samples/ Cycle Waveform Recording			
* These two options must be ordered together.					<b>V4</b> V3 + 128 MB Memory and 512 Samples/ Cycle Waveform Recording			
** Applies only to Shark® 250 meter.								
*** The Shark® 200 meter must be at V4 or higher to use the relay features.								

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