

M70 Critical Power Monitor

INTRODUCTION

Product	Starline Critical Power Monitor
Series	M70
Application	Busway Plug-in Unit (Monitor up to 6 Outlets) Busway End-Feed - Retrofit Unit for End Feeds

METERING

Metering Type	Energy Meter
Outlet Monitoring	6x Single-Phase 3x Two-Phase 2x Three-Phase Optional Measured Neutral [Feed Only]
Metering Options	Tap-Off Units (2) RJ11, (2) RJ45, No Display (Wi-Fi Optional) (2) RJ11, (2) RJ45, 7-Segment Display (Wi-Fi Optional) Feed Only (2) RJ11, (2) RJ45, 4.3" LCD Touch Screen Display (Wi-Fi Optional)

PARAMETERS

Meter Parameters	Current (up to 6 current transformer inputs)	A
	Point of Tap Voltage (L-L, L-N)	V
	Active Power (per phase)	W
	Active Power (total)	W
	Apparent Power (per phase)	VA
	Apparent Power (total)	VA
	Frequency	Hz
	Power Factor	-
	Energy (per phase)	kWh
	Energy (total)	kWh

PARAMETERS CONT.

Accuracy	Line-neutral voltage:	0.5% reading
	Line-line voltage:	0.5% reading
	Frequency:	± 0.1 Hz
	Current:	0.5% reading ¹
	Power factor:	1.0% reading
	Power and energy:	ANSI C12.20 Class 0.5
Power Supply Type	AC/DC	
Ratings	Up to 1200 Amps 96-528 Volts AC	

1) The STARLINE CPM provides a calculated neutral value that may have an error in excess of 0.5% for high harmonic systems. The measured values, those obtained with current transformers, remain accurate in high harmonic systems.

ENVIRONMENT

Operating Conditions	Operating temperature range: 0 °C – 70 °C (32 °F – 167 °F)	
	Storage temperature range: -40 °C – 85 °C (-40 °F – 185 °F)	
	Humidity: 5% - 95% non-condensing	
Overvoltage & Safety	Overvoltage Category III Measurement Category III	

COMMUNICATION

Communication Protocols	HTTPS	
	SSH	
	SNMPv1, SNMPv2c, SNMPv3	
	BACnet	
	Modbus TCP, Modbus RTU	
	Ethernet (Daisy Chain Ethernet Available) 802.11n Wi-Fi (Optional)	
Firmware Configurations	Std Options (IPV4)	
	IPV6	
	DHCP WPA2E (Wi-Fi Only)	
Communication Interfaces	(2) RJ11	
	(2) RJ45 (Ethernet)	
	Wireless (optional)	
Information Systems	Simultaneous use of protocols	
	Real-time monitoring with integrated webpages	
	Open protocol use for implementation with BMS and DCIM packages	

DISPLAY

Display Options	<p>No Display</p> <p>7-Segment LED Display</p> <p>LCD Touchscreen Display (4.3" - Hinged for Easy Viewing Angle)</p>
Power Supply Type	<p>LCD Touchscreen Display</p> <p>Device Information</p> <p>Networking Status</p> <p>Alarms</p> <p>Real-time display of the meter parameters</p> <p>Current</p> <p>Voltage</p> <p>Active Power</p> <p>Apparent Power</p> <p>Energy</p> <p>Lug Temperature (optional)</p> <p>LED Display</p> <p>Meter Parameters displayed in Real-Time</p> <p>Power Factor</p> <p>Feed Current</p> <p>L-L voltage</p> <p>L-N voltage</p> <p>Active Power</p> <p>Apparent Power</p>

SECURITY

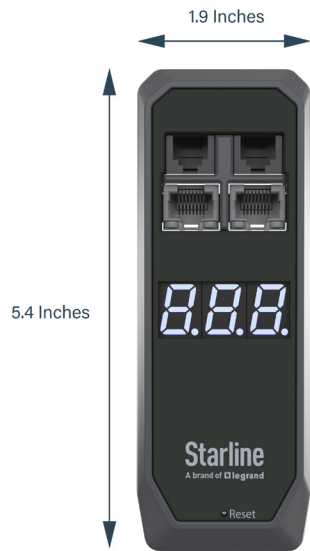
IoT Security	<p>Password (Encrypted Password Storage, Minimum Password Complexity Requirements, Access only through Admin Priviledges)</p> <p>Encrypted Firmware Images</p> <p>Blowable JTAG Security Fuse</p> <p>WPA2-E Sercurity (Wifi only)</p> <p>Ongoing Firmware Vulnerability Scans</p> <p>CA SB-37 Compliant</p> <p>ISO-27001 Compliant</p>
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COMPLEMENTARY FEATURES

Optional Features	<p>Real-time End Feed Lug Temperature Monitoring (Optional) [Feed Only] - Max Temp. 65 °C (149 °F)</p> <p>Audible Alarms (Optional) [Feed Only]</p> <p>Circuit Breaker Position Sensing: On/Off (Optional) [TOU Only]</p> <p>Wi-Fi (optional)</p>
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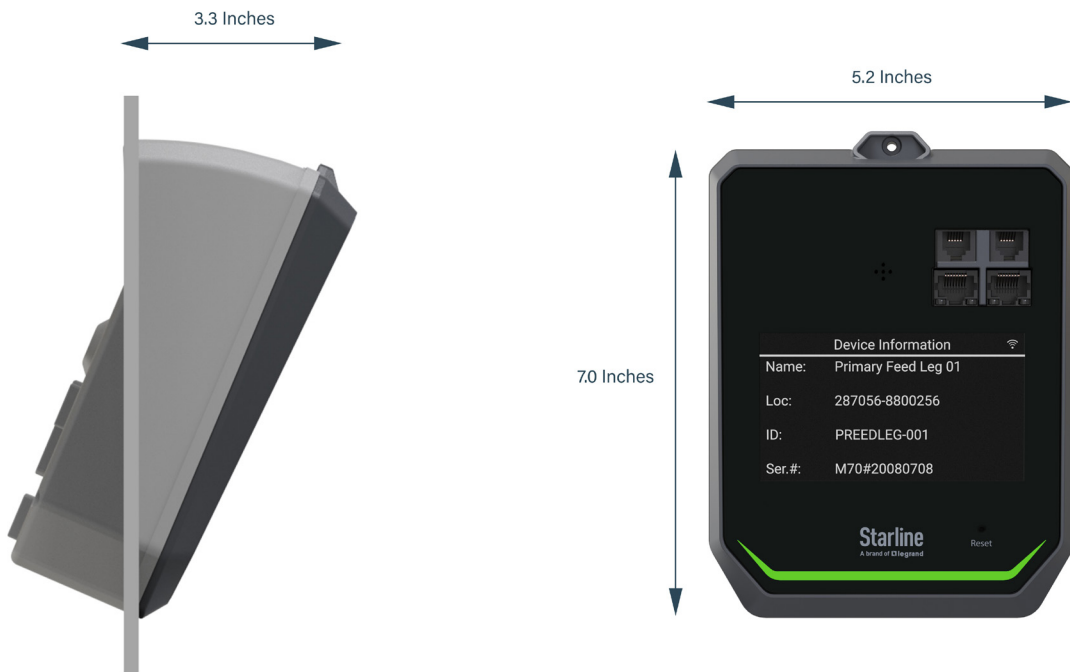
M70 - LED WITH DISPLAY (FOR PLUGS)

Height	5.4 inches
Width	1.9 inches



M70 - LCD WITH DISPLAY (FOR POWER FEEDS)

Height	7.0 inches
Width	5.2 inches
Depth	3.3 inches



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