

# 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	<b>Tap-Off Units</b> (2) RJ11, (2) RJ45, No Display (Wi-Fi Optional) (2) RJ11, (2) RJ45, 7-Segment Display (Wi-Fi Optional)  <b>Feed Only</b> (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 <sup>1</sup>
	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	<ul style="list-style-type: none"> <li>No Display</li> <li>7-Segment LED Display</li> <li>LCD Touchscreen Display (4.3" - Hinged for Easy Viewing Angle)</li> </ul>
Power Supply Type	<p><b>LCD Touchscreen Display</b></p> <ul style="list-style-type: none"> <li>Device Information</li> <li>Networking Status</li> <li>Alarms</li> <li>Real-time display of the meter parameters</li> <li>Current</li> <li>Voltage</li> <li>Active Power</li> <li>Apparent Power</li> <li>Energy</li> <li>Lug Temperature (optional)</li> </ul> <p><b>LED Display</b></p> <ul style="list-style-type: none"> <li>Meter Parameters displayed in Real-Time</li> <li>Power Factor</li> <li>Feed Current</li> <li>L-L voltage</li> <li>L-N voltage</li> <li>Active Power</li> <li>Apparent Power</li> </ul>

## SECURITY

IoT Security	<ul style="list-style-type: none"> <li>Password (Encrypted Password Storage, Minimum Password Complexity Requirements, Access only through Admin Privileges)</li> <li>Encrypted Firmware Images</li> <li>Blowable JTAG Security Fuse</li> <li>WPA2-E Security (Wifi only)</li> <li>Ongoing Firmware Vulnerability Scans</li> <li>CA SB-37 Compliant</li> <li>ISO-27001 Compliant</li> </ul>
--------------	---

## COMPLEMENTARY FEATURES

Optional Features	<ul style="list-style-type: none"> <li>Real-time End Feed Lug Temperature Monitoring (Optional) [Feed Only] - Max Temp. 65 °C (149 °F)</li> <li>Audible Alarms (Optional) [Feed Only]</li> <li>Circuit Breaker Position Sensing: On/Off (Optional) [TOU Only]</li> <li>Wi-Fi (optional)</li> </ul>
-------------------	--

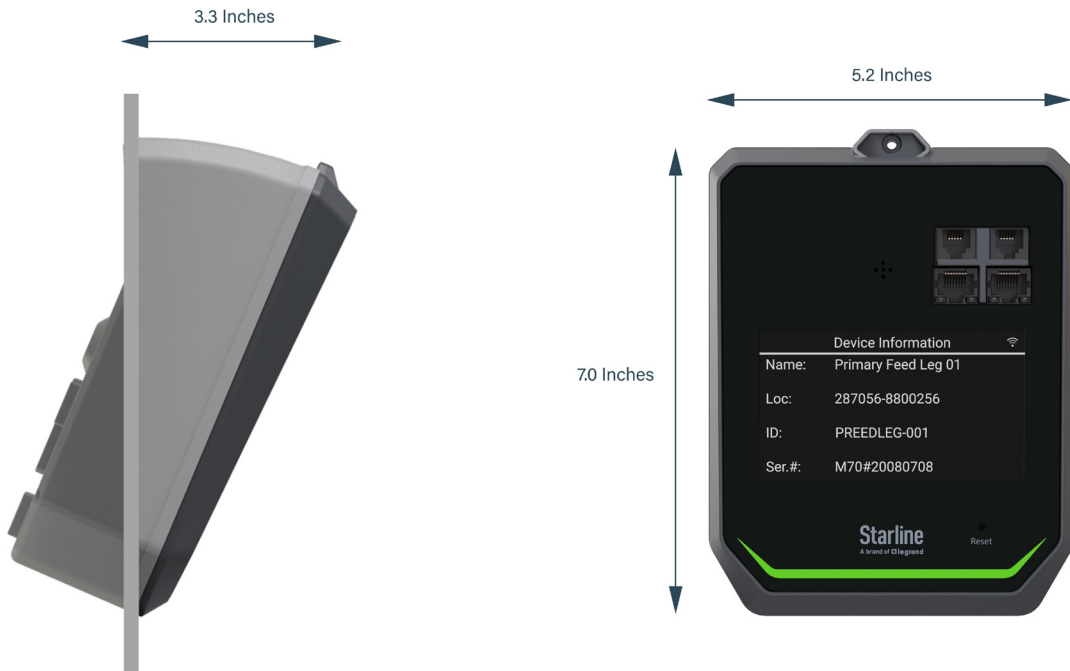
### M70 - LED WITHOUT DISPLAY (FOR PLUGS)

Height	5.4 inches
Width	1.9 inches



### M70 - LDC WITH DISPLAY (FOR END FEEDS)

Height	7.0 inches
Width	5.2 inches
Depth	3.3 inches



**StarlinePower.com**

+1 724-597-7800 | 800-245-6378

©2023 Legrand. All rights reserved. The industry-leading brands of Approved Networks, Ortronics, Raritan, Server Technology, and Starline empower Legrand's Data, Power & Control to produce innovative solutions for data centers, building networks, and facility infrastructures. Our division designs, manufactures, and markets world-class products for a more productive and sustainable future. The exceptional reliability of our technologies results from decades of proven performance and a dedication to research and development. LIT#V2012