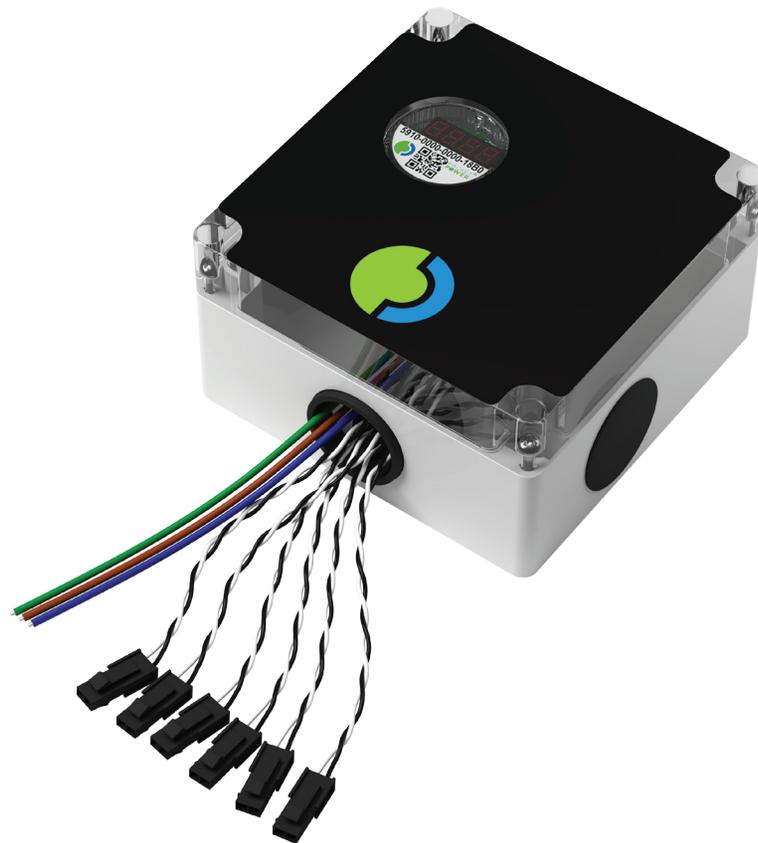




## WIRELESS CURRENT MONITOR

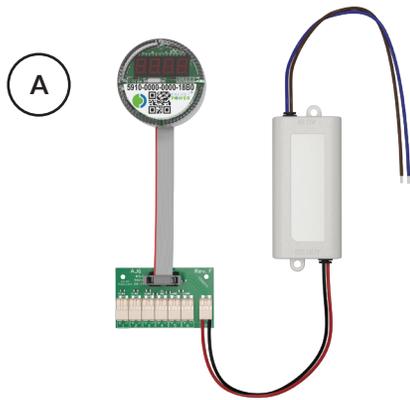
MC240 Model Components  
and *Monitoring Made to Measure* Specifications



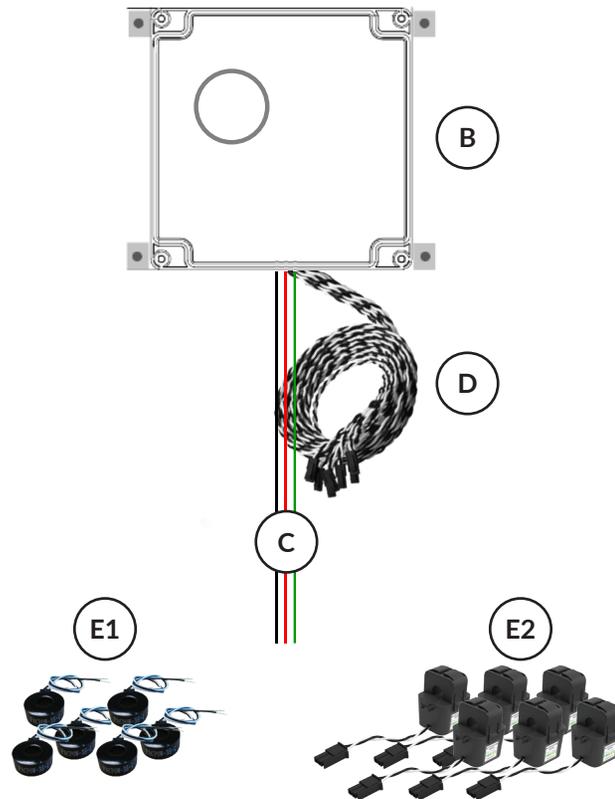
**WIRELESS CURRENT MONITOR COMPONENTS**

Packet Power's MC240 wireless current monitor can be ordered as a single meter with power supply and CT Interconnect Board or fully configured and assembled with a choice of enclosure, power connections and current components are purchased separately.

**MC240**



**OPTIONAL COMPONENTS**



**MC240 COMPONENTS**

(A) Monitor: Wireless current monitor, power supply and CT Interconnect Board

**Optional Components**

(B) Enclosure: A variety of enclosure options are available (see page 5)

(C) Voltage Lead: 18 AWG 600V colored wire connected to a 6-position terminal block 3m and 7m length; Optional 5x20 mm 5A inline fuse on L1; ground wire run separately

(D) Split Core CT Leads: 24 AWG 600V twisted pair with quick disconnects that connect to CT tail 0.5-5m length

(E) Current Sensors Up to 6 current sensors of varied amperage and size (see page 4); cannot mix solid and split core current sensors in one MC240 device

(E1) Solid Core CTs: Rated amperage: 35A to 400A; mA or mV output; dimensions vary by amperage

(E2) Split Core CTs: Rated amperage: 15A to 4000A, mV output Dimensions vary by amperage

MODELS

	Model	Maximum Current Only CTs	CT Output	Voltage Options
	MC240-6MV	6	mV	100-240V AC 1Φ (LN) 200-230V AC 1Φ (LL)
	MC240-6MA	6	mA	50/60 Hz Frequency

TECHNICAL SPECIFICATIONS

Measurements	A, Ah (W, Wh using an arbitrary voltage) Accuracy: ±1.0% (CT dependent); ±0.5% available
Fusing	Optional inline 5A, 5x20mm time lag glass tube fuse in twist lock holder
Current Range	Up to 4000A
Frequency	50/60 Hz
Monitor Dimensions	71 x 40 x 36 mm (2.8 x 1.6 x 1.4 in); see page 5 for enclosure options
Monitor Weight	0.1 kg (3.6 oz)
Mounting	Current monitor has 1.25" diameter threaded neck designed to mount directly on to enclosures using a 1.0" NPT hole
Available Wire Exits	Varies by enclosure (see page 5 for details)
Voltage Lead	18 AWG 600V colored wire; 3m or 7m length
Split Core CT Leads	24 AWG 600V twisted pair; quick disconnect; 0.5 - 5m length
Operating Environment	0° to 75°C (32° to 167°F); 5% to 95% non-condensing
Water and Dust Resistance	Indoor use for most enclosures, NEMA 4 available
Power Usage	1W
Wireless Network Protocol	Frequency hopping self-configuring load-balancing mesh; Operating frequency 860 to 930 MHz and 2.4 GHz (frequencies vary by region)
Wired Network Protocols	HTTPS to Packet Power EMX running locally or as cloud service; SNMP V1/V2c/V3; Modbus TCP/IP; Ethernet/IP; MTConnect; BACnet/IP; MQTT
Firmware Updates	Wireless
Typical Transmission Range	10 to 30 meters indoors between any two devices in mesh network
Antenna	Fully enclosed, fixed configuration
Monitor to Gateway Ratio	Up to 100 monitoring units per Ethernet Gateway with unlimited Gateways per site
Local Display	Amps and communication status
Made in USA	Yes
Product Warranty	1 year
Certifications	UL 508A and CE, FCC and other country communications standards

MONITORING MADE TO MEASURE

“Monitoring made to measure” means we fully configure each power monitor to meet your exact needs. If you’d like to cut your installation costs in half by having Packet Power configure and assemble your wireless power monitor, here’s what we need to know.

- Type of enclosure
- Desired wire exit location
- Number of circuits being measured
- Desired CT output
- Type and number of current transformers (CTs) and CT amperage(s)

Use the Configuration worksheet on page 5 to capture your needs.

Enclosures, CTs and voltage disconnects are purchased separately from the meter. Use the Configuration worksheet on page 6 to capture your needs. Contact sales@packetpower.com with questions or if you need a different option than outlined in the rest of this document.

SOLID & SPLIT CORE CTs

CT Type	Rated / Max Amperage	Inside Diameter	External Dimensions (H x W x D)	CT Output	CT Tail	CT Lead Length
Solid core	35A / 35A	9 mm	22 mm outside dia x 9 mm thick	mA or mV	200 mm	NA
Solid core	60A / 72A	15 mm	30 mm outside dia x 9 mm thick	mA or mV	200 mm	
Solid core	200A / 240A	32 mm	69 mm outside dia x 20 mm thick	mV	2000 mm	
Solid core	400A / 480A	32 mm	69 mm outside dia x 20 mm thick	mV	2000 mm	
Split Core	15A / 18A	10 mm	39 x 23 x 26 mm	mV	100 mm	0.5 meters 1 meter 1.5 meters 2 meters 3 meters 5 meters
Split Core	30A / 36A	10 mm	39 x 23 x 26 mm	mV	100 mm	
Split Core	50A / 63A	10 mm	39 x 23 x 26 mm	mV	100 mm	
Split Core	100A / 120A	16 mm	44 x 31 x 33 mm	mV	500 mm	
		24 mm	65 x 46 x 35 mm		500 mm	
Split Core	200A / 240A	24 mm	65 x 46 x 35 mm	mV	500 mm	
		36 mm	85 x 37 x 42 mm		500 mm	
Split Core	300A / 360A	24 mm	65 x 46 x 35 mm	mV	500 mm	
		36 mm	85 x 37 x 42 mm		500 mm	
		75 x 125 mm	201 x 146 x 16 mm		500 mm	
Split Core	400A / 480A	36 mm	85 x 37 x 42 mm	mV	500 mm	
		50 x 50 mm	125 x 120 x 30 mm		500 mm	
Split Core	600A / 720A	36 mm	85 x 37 x 42 mm	mV	500 mm	
		50 x 50 mm	125 x 120 x 300 mm		500 mm	
		75 x 125 mm	201 x 146 x 16 mm		500 mm	
Split Core	800A / 960A	50 x 50 mm	125 x 120 x 30 mm	mV	500 mm	
		75 x 125 mm	201 x 146 x 16 mm		500 mm	
		150 x 150 mm	225 x 219 x 30 mm		500 mm	
Split Core	1000A / 1200A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	
Split Core	1200A / 1440A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	
Split Core	1600A / 1920A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	
Split Core	2000A / 2400A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	
Split Core	3000A / 3600A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	
Split Core	4000A / 4800A	150 x 150 mm	225 x 219 x 30 mm	mV	500 mm	



CTs sold separately

DESIGN YOUR MC240 WIRELESS CURRENT MONITOR

The MC240 wireless current monitor can be purchased by itself, with any of the available optional components, or fully configured and assembled.



Meter Only

Refer to product manual for detailed instructions and safety information

Monitoring Made to Measure

Meter fully configured, fully assembled in the enclosure, and tested prior to shipping

VOLTAGE	VOLTAGE LEAD WIRE COLOR
<input type="checkbox"/> 100-240V AC 1 Phase (2-wire LN + E)	<input type="checkbox"/> Black/White <input type="checkbox"/> Brown/Blue
<input type="checkbox"/> 200-230V AC 1 Phase (2-wire LL + E)	<input type="checkbox"/> Black/Red
	Fusing: <input type="checkbox"/> Fused <input type="checkbox"/> Not Fused
	Length: <input type="checkbox"/> 3m <input type="checkbox"/> 7m <input type="checkbox"/> _____m

Customer \_\_\_\_\_

Location \_\_\_\_\_

Quantity \_\_\_\_\_



CURRENT SENSORS (see page 4 for options)	
CT Type:	<input type="checkbox"/> Solid Core <input type="checkbox"/> Split Core
CT Amperage:	
CT Inside Diameter:	
CT Qty:	
Split Core CT Lead Length:	<input type="checkbox"/> 0.5m <input type="checkbox"/> 1m <input type="checkbox"/> 1.5m <input type="checkbox"/> 2m <input type="checkbox"/> 3m <input type="checkbox"/> 5m <input type="checkbox"/> _____m

COMMENTS

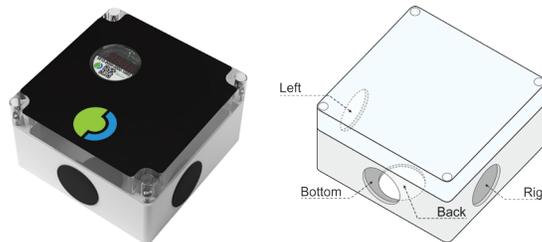
ENCLOSURE & WIRE EXIT

None



Current meter, power source and CT Interconnect Board

NEMA 4 6X6



Gateway + Meter



(includes top vent)

Dimensions	Current meter: 71 x 40 x 36 mm (2.8 x 1.6 x 1.4")	160 x 160 x 92 mm (6.3 x 6.3 x 3.6")	241 x 160 x 96 mm (9.5 x 6.3 x 3.8")
Material	Lexan	Polycarbonate, NEMA 4 / IP67 available	Polycarbonate, NEMA 1
Wire Exit	NA	1" NPT (1.375" / 35 mm dia) hole <input type="checkbox"/> Bottom <input type="checkbox"/> Back <input type="checkbox"/> Left <input type="checkbox"/> Right	One 1" NPT hole for CT and voltage leads and one 3/8" dia hole for Ethernet Cable <input type="checkbox"/> Bottom <input type="checkbox"/> Back

**MC240 WIRELESS POWER MONITOR ORDERING INFORMATION**

Packet Power's MC240 wireless current monitor can be ordered fully configured to each customer's needs. The components selected in the Configuration worksheet (page 5) result in a unique product number. All components including enclosure, CTs, leads and voltage disconnects are sold separately.

Example: Measure 6 circuits, 120V LN power, six 35A solid core CTs with mA output; 1.5m CT leads, NEMA box with bottom wire exit  
 Product Number: MC2406MA-0356A-N1B

Model	Amperage	CT Qty	CT Lead	Enclosure	Wire Exit
MC2406MV	015, 030, 035, 050, 060	1-6	H = 0.5M	N1 = NEMA 6x6	B = Bottom
MC2406MA	100, 200, 300		1 = 1M	M1 = GW + Meter	L = left
	400, 600, 800		B = 1.5M	Omit = None	R = Right
	10X = 1000, 12X = 1200		2 = 2M		X = Back
	16X = 1600, 20X = 2000		3 = 3M		Omit = None
	30X = 3000, 40X = 4000		5 = 5M		
	C = Custom		C = Custom		
			Omit = None		

Please contact sales@packetpower.com with questions or if you have additional customization needs not shown here.