

# One Meter To Rule Them All!



For more information go to  
[www.clipsalcortex.com](http://www.clipsalcortex.com)



## Export Limiting

Communication via Modbus for solar export limiting\* and batteries. Saving you time & money by only installing one meter.



## Intelligent Control

Clipsal Cortex's intelligent control channels excess solar to your heavy load appliances (EV charger, hot water and air con).



## Advanced Monitoring

Understanding your energy has never been easier with our award winning app and tailored insights from battery calculator and more!

\*For most updated list please refer to [www.clipsalcortex.com](http://www.clipsalcortex.com)

# Model Number: CX2-SW-MB

## Electrical Properties

Current Reading Capability	
Number of CT inputs per meter	6 split-core CT's per Meter
Compatible CTs	60A, 120A, 200A, 400A, 600A

Power Consumption and Protection	
Device Power Consumption	1.2W (Supplied by P1)
Circuit Breaker	Minimum Rating 10A

Compatible Grid Voltages	
Number of phases measured	1-3 phase plus neutral
Compatible Grid Voltages	80-265V, 0.1V resolution
Compatible Grid Frequencies	45 to 65 Hz, (0.01 Hz resolution)

Energy Measurement	
Current and Voltage	<0.5% - Class 1
Active energy	<1%, Class 1 (IEC 62053-21)
Reactive Energy	<2%, Class 2 (IEC 62053-23)
Logging capacity	28 days internal logging of 5 minute interval data.
Instantaneous measurements	real, reactive energy, voltage, current, frequency, power factor.
Five-minute interval data	real/reactive energy, min/max voltage, min/max current, frequency, power factor.
Reporting frequency	5 seconds

## Mechanical and Environmental Properties

Mechanical	
Mounting Method	DIN (2 poles)
Weight	<0.3kg
Dimensions	89 x 77 x 35 mm
Length of CT Cable	1.8m (extendable) 2 x 24AWG - white or grey jacket PVC wire

Environmental	
IP Rating	IP 50
Operating temperature	-10 deg C to +55 deg C

## Switching and Modbus

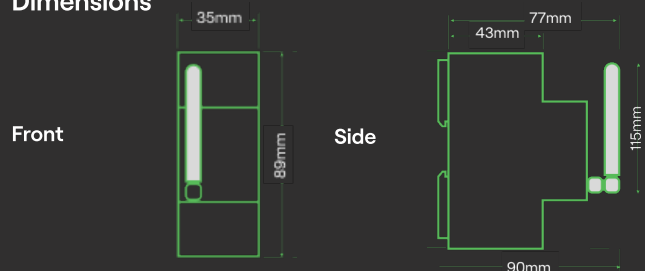
Switching	
Dry Contact	1 independent switching channels controlled via Clipsal Cortex App
Electrical rating	240V AC nominal 100mA per switching output
External Connection (Power Supply)	240V AC connected to switching common terminal

Modbus	
Type	Modbus RTU RS-485 using SELV wiring to solar inverters and other Modbus devices.
Auto-Detection	Operates as a Modbus Client or Server, for compatible devices. Capable of communicating with 1 Modbus device.

## Communication

Cellular and Wi-Fi	
Cellular Communications	4G LTE CAT 1
Auto-carrier selection	Automatically selects the best compatible carrier based on signal strength (in AU: Telstra, Optus)
Wi-Fi Communications	2.4 GHz IEEE 802.11 b/g/n up to 150 Mbps
Authentication Modes	WEP, WPA, WPA2, WPA3

## Dimensions



Certifications	
Safety	AS/NZ 60950.1:2015
Emissions	AS/NZS CISPR 22 (2009+Amt1 2010)
Immunity	CISPR 24: 2010, CISPR 32:2015
Related Spurious emissions	AS/NZS 4268:2008 +A1:2010 C 8.2 and 9.1
ARPANSA RP3	AS/NZS 2772