

The Latest in Energy AI for your home



Save up to \$700 in the first year with Cortex

See how much you are saving in real-time, track your return on investment and save up to \$700* in the first year with Cortex and up to \$3,000 over the first 5 years using our cutting-edge technology & smart savings features.

*Average Cortex Consumer could save \$700 in the first year alone, subsequent years may vary. Savings estimations based on Clipsal Cortex customer database 2022.



Save More With Energy AI

Future proof your home with our innovative features that scan for wasted power and finds the best electricity plan for you.



Take Control of Your Home

Cortex's intelligent control channels excess solar to your heavy load appliances.



Empowering Better Choices

Understanding your energy has never been easier with our award winning app and tailored insights.

How Cortex Works?

Cortex is a mobile and desktop application that helps homeowners take control of their energy and make the most out of their investment in solar.

The app uses data transmitted by the switchboard-mounted Cortex meter to provide a range of insights into how much you spend on your power and how you can save more.



How Cortex Saves You More

Through these innovative features we help you save up to \$700 in the first year!

Intelligent Control*

Automatic channelling of excess solar to appliances like electric hot water systems, pool pumps, EV chargers and many more.

Bill Check

Upload electricity bills & compare plans in seconds to save more on your energy costs.

Solar Savings

AI powered personalised insights to boost the return on your solar investment.

Leak Scanner

Lower your energy costs by detecting energy wastage in your home with a tap of a button.

*Available with Cortex CX1-SW

Electrical Properties

Current Reading Capability	
Number of CTs	6 split-core CT's per meter
Standard	60A, 10mm internal diameter
Other compatible CTs (ordered separately)	120A, 400A, 600A

Power Consumption and Protection	
Device Consumption	1.2W (Supplied by P1)
Protection	Internal Fuse
Circuit Breaker	Maximum Rating 16A

Compatible Grid Voltages	
Number of phases measured	1-3 phase plus neutral
Compatible Grid Voltages	50-280V AC
Compatible Grid Frequencies	45 to 65 Hz

Mechanical and Environmental Properties

Mechanical	
Mounting Method	DIN (2 poles)
Weight	<0.3kg
Dimensions	35 x 90 x 66mm
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

Certifications

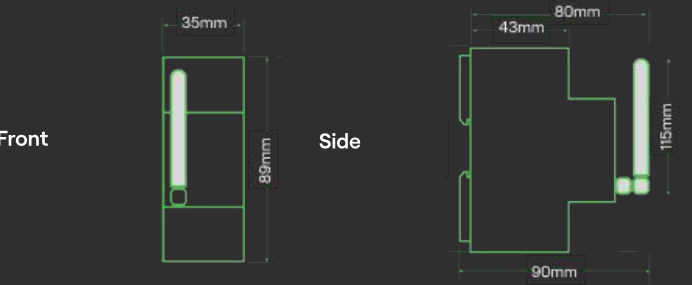
Certifications	
Safety	AS/NZ 60950.1:2015
Emissions	AS/NZS CISPR 22 (2009+Amt1 2010)
Immunity	CISPR 24: 2010, CISPR 32:2015
Related Spurious emissions	AS/NZS 4268:2008 +A1:2010 C 8.2 and 9.1
ARPANSA RP3	AS/NZS 2772

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	27 days internal logging of 5 minute interval data. Data stored in non-volatile memory and transmitted automatically when communications are restored.
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

Switching *Available with Clipsal Cortex CX1-SW

Switching Channels	
Number	3 independent switching channels controlled via API
Electrical rating	240V AC nominal 100mA per switching output
External Connection (Power Supply)	240V AC connected to switching common terminal

Dimensions



Communication

Communication	
Cellular	4G, 3G, Pentaband, LTE
Auto-carrier selection	Automatically selects the best compatible carrier based on signal strength (in AU: Telstra, Optus and Vodafone)
Antenna	SMA connector. Supplied with direct-connect multi-band antenna. External antennas can be used to boost signal strength.