

How to read a Single-Phase 0520 Meter

The 0520 is Western Power's replacement Single Phase whole current meter with a capacity of up to 100 amperes.

The first four digits of the serial number for this type of meter start with **0520xxxxxx**.

This meter has a liquid crystal display (LCD) that is programmable for Time of Use (ToU) metering and is capable of bi-directional (consumption/generation) measurement.

1. Communication Module Cover

Protects the communication module of the meter (where fitted).

2. Nameplate Label

Gives the basic technical information about the meter and its serial number. Each meter is assigned a unique individual serial number, and the first four digits are the meter code followed by a six digit serial number.

3. LCD

This display shows the total electricity consumption for the relevant tariff. The meter is also programmed to display the time and date.



4. Test LEDs

The LED light will pulse on & off when electricity is being used. These pulses get faster as electricity consumption increases.

5. Alternate Display Scroll Button

This button is used to scroll the register displays. Each press of the scroll button will show the next register display.

9. Terminal Cover

Protects the live meter terminals and screws from unauthorised access and safety of customer and personnel.

8. Terminal Cover Seal

Meters are sealed on the main cover at the manufacturing plant. This seal prevents unauthorised personnel from accessing the internal components of the meter.

7. Optical Port

This is the meter's infrared (IR) device. Western Power personnel download the data from the meter using an optical probe cable connected to a handheld unit (HHU).

6. Load Control Boost Button

This is used for overriding or connecting controlled loads such as hot water systems.

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Consumption means delivered by the network to the customer, and Generation means received by the network from the customer. As such;

A. Non-solar customer

Standard All Time (A1)/ Smart Home Plan (SHP) Tariff Meter for Uni-directional (Consumption) Measurement

- The LCD display registers scroll automatically every 6 seconds. If you wish to skip the current display, press the left hand grey button (1) to skip to next display. For each press of the button, the display scrolls/moves to the next one.
- A1 tariff, read the LCD display reading on channel “07”.
- ToU requires you to read channels “10, 20, 30 and 40”.
- The display sequence and corresponding information are listed below:

Channel/ Display ID	Channel	Meter Display
04	Time	hh:mm
05	Date	dd:mm.yy
07	Total kWh Consumption (A1 Tariff)	000000
10	kWh Consumption Total Current Rate A	000000
20	kWh Consumption Total Current Rate C	000000
30	kWh Consumption Total Current Rate B	000000
40	kWh Consumption Total Current Rate D	000000
88	Test Display	\$888888

B. Solar customer

- The LCD display registers scroll automatically every 6 seconds. If you wish to skip the current display, press the left hand grey button (1) to skip to next display. For each press of the button, the display scrolls/moves to the next one.
- The customers import registers/channels are programmed and displayed on the *normal display mode*, whilst the customers export registers/ channels are programmed and displayed on the *alternate display mode*.

A1 tariff:

- A1 tariff, read the LCD display reading on channels “07, 47”
- To read “47”, press the left hand grey button (1) on the meter and hold for two seconds until “Alt 1” is displayed on the LCD display, which is the *alternate 1 display mode*. Once the “Alt 1” is displayed, the meter will start to scroll through the different export channels automatically pausing briefly for approximately six seconds on each one so that the display can read.

ToU tariff:

- ToU requires you to read channels “10, 20, 30, 40, 50, 60, 70 80”.
- “10, 20, 30 and 40” can be read from the *normal display mode*.
- “50, 60, 70 and 80” can be read by pressing the left hand grey button (1) on the meter and hold for two seconds until “Alt 1” is displayed on the LCD display, which is the *alternate 1 display mode*. Once the “Alt 1” is displayed, the meter will start to scroll through your different generation channels, automatically pausing briefly for approximately six seconds on each channel.

The display sequence and corresponding information are listed below:

Channel/ Display ID	Channel	Meter Display
04	Time	hh:mm
05	Date	dd:mm.yy
07	Total kWh Consumption (A1 Tariff)	000000
10	kWh Consumption Total Current Rate A	000000
20	kWh Consumption Total Current Rate C	000000
30	kWh Consumption Total Current Rate B	000000
40	kWh Consumption Total Current Rate D	000000
88	Test Display	\$888888
47	Total kWh Generation (A1 Tariff)	000000
50	kWh Generation Total Current Rate A	000000
60	kWh Generation Total Current Rate C	000000
70	kWh Generation Total Current Rate B	000000
80	kWh Generation Total Current Rate D	000000