



# MK BEACON™



## MKBEACON™ 2-Bay Meter



### Key features:

- Supports single-space or multi-bay parking.
- EMV compliant, PA-DSS certified and FCC approved.
- Accepts coins, credit cards, contactless credit cards and smart cards.
- MacKay's patented SmartChute™ coin validation technology.
- Green Technology - High efficiency solar panel providing long lasting power.
- Superior design for serviceability providing quick access to components for on-street maintenance.
- Large high contrast graphics display.
- Bright, front and rear enforcement LEDs can be easily seen from passing enforcement vehicles.
- Powerful off-site monitoring capabilities using Sentinel™ Meter Management System. Monitor your equipment remotely, generate reports, and receive alerts, no matter where you are.
- Fits into existing housings or ships with new vault and coin can ready for the street.
- Manufactured under stringent ISO 9001:2008 certified quality process.
- MacKay Meters backs its product lines with a solid warranty based on the confidence in the quality of its products.

<over for specifications>



New User-Friendly Design Fits Existing Housing Vaults



Easy Access for On-Street Servicing

[www.mackaymeters.com](http://www.mackaymeters.com)



## General Specifications

- Compatible with all MacKay mechanism housings and many competitor's housings.
- Manufactured under ISO 9001:2008 certified quality processes.
- Designed to work under extreme environmental conditions.
- Operating temperature range:  
-22°F (-30°C) to 176°F (80°C).

## Power Source Details

- High efficiency, solar recharged, lithium-ion battery pack.
- High capacity 6 x D size alkaline battery pack<sup>1</sup>
- Battery packs are easy to replace on-street without the use of tools.

## Keypad & Human Interface Details

- Sealed weather proof buttons for selecting menu items.
- Standard buttons include an up arrow, down arrow, "✓" for accept and "X" for cancel.
- Audible feedback with all button presses.



## Front Graphical Display

- High contrast and high visibility Liquid Crystal Display (LCD) and Light Emitting Diode (LED) backlight technologies.
- LCD has fully programmable displays and LED back light for effective night-time operation.
- Large 4.25" (108 mm) display.
- Client controlled customizable screens that can be sent remotely using Sentinel™ Meter Management System (MMS)

## Front and Rear LEDs

- Dual colour (Red/Green) Super Bright LED's on both front and rear.
- Flashing LED visible at distance of 80 feet (24 meters) at night.

## Communication and Data Transfer

- Supports multiple secure interfaces for communication including:
  - Wireless cellular radio 3G and 4G cellular (HSPA, EVDO, LTE)
  - X-Key programming port
  - Future Expansions

## LED Night Light

- Bright LED provides light for the buttons and payment options during dark hours.

## Coin Payment

- Patented SmartChute™ coin discriminator proven in hundreds of thousands of meters worldwide.
- 3-coil design provides accurate coin reads and long life.
- Straight-drop/clear view coin chute allows for superior detection and removal of foreign objects.
- Coin chute is easily and quickly replaced/ serviced in the field without the need for special tools.
- Coin chute calibration or chute training is not required.
- Sorts up to 16 different coin/token signatures and uses a single stainless steel entrance slot.
- Can be programmed to detect non-metallic jams such as paper/gum.
- Validates and discriminates coins electronically by two different coil sensors/methods.
- Invalid coin indicator on display.

## Credit Card and Smart Card Payment

- Single card slot for both credit card and smart card payment.
- Card reader rated at 50,000 insertions and is easily and quickly replaced / serviced in the field without special tools.
- Real time credit card authorization through cellular communications.
- PA-DSS validated.
- Angled insertion design to prevent water ingress.
- Programmable<sup>2</sup> to support numerous ISO7816 compliant smart card payment technologies including:
  - Microprocessor cards
  - Reloadable stored value memory cards
  - Other custom card payment schemes

## Contactless Payment

- compact module easily serviced/replaced
- EMV compliant reader supports contactless payment applications with the following: Visa® payWave, MasterCard® PayPass™, American Express® ExpressPay®, Discover® Network Zip.
- EMV Certified by major card associations, FCC/CE Certified Class B

## On-Street Serviceability

- Easy on-street replacement of cellular modem, coin chute, card reader, batteries, contactless reader, and solar panel.

## Transaction Data

- All operational, maintenance and financial data is sent wirelessly to Sentinel™ MMS.



## Programmable Features

- Highly flexible rate/tariff/max-time structure including:
  - Up to sixteen (16) defined rates with defined max time for each.
  - Standard rate operation.
  - Time-of-day rate/max time control.
  - Day-of-week rate/max time control.
  - Day-of-year rate/max time control.
  - Progressive/regressive tariffs.
  - Cumulative grace.

## Meter Management System Features

- Remote programming and monitoring using Sentinel™ MMS.
- Meter revenue audit including credit cards by type, individualized coin counts, plus total invalid coin count.
- Separate time-stamped transaction (coin/card) and maintenance logs for ticket adjudication.
- Transaction log stores time-stamped data for the coin and card transactions.
- Maintenance log stores time-stamped data for the all maintenance events.
- Swapping/moving meters within a meter system.
- Audit disable for coin/card check during:
  - Maintenance/testing.
  - Time/rate programming.
  - Meter maintenance.
  - Meter/post inventory.
- Password protected - user and group level security features.

## Warranty

J.J. MacKay Canada Limited, the manufacturer, guarantees for a period of one year from the date of shipment against defects in workmanship and/or materials.

**Contact your local representative for further information.**



[1] Actual battery life achieved may vary significantly depending on many factors including but not limited to: battery manufacturer, age of battery when installed, meter usage, hours of operation, features implemented, and operating environment.  
[2] Certain restrictions and/or costs may apply.



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