MK BEACON™

MKBEACON™

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.
- Weatherproof Piezo style keypad.
- Superior design for serviceability providing quick access to components for on-street maintenance.
- Meter components protected in strong, light-weight polycarbonate housing.
- Large high contrast graphics display.
- Bright, front and rear enforcement LEDs can be easily seen from passing enforcement vehicles.
- Night light on front for night use.
- Powerful off-site monitoring capabilities using Sentinel ™ Meter Management System.
- 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

MACKAY METERS™

MK BEACON

SPECIFICATIONS

General Specifications

- Compatible with all MacKay mechanism housings and many competitor's housings.
- Manufactured under ISO 9001:2008 certified quality processes. Strong polycarbonate housing front and stainless steel back.
- 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[1].
- Battery packs are easy to replace on-street without the use of tools.

Keypad & Human Interface Details

- Sealed, weather-proof, Piezo style buttons for selecting menu items.
- Standard buttons include an "+" for increase, "-" for decrease, "✓" 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.
- LED "Night light" shines on meter front during dark hours.

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

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.
- Programmable[2] 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.
- Transaction log stores time-stamped data for the last 2,000 coin and/or card transactions.

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.

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[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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MACKAY METERS™

MacKay mechanism