

Our mission is to continually improve our products and services to meet or exceed our customer's needs.



MACKAY METERS
Experience in Parking



MACKAY PRODUCTS

Quality, Innovation and Service are the cornerstones
of the MacKay product line.

**AS OUR
PRODUCTS ARE
VIEWED...
SO ARE WE
VIEWED.**

Our staff employ flexibility in ensuring that we fully honour our commitments to our customers. They provide our business intelligence, determine our longevity and sustain our reputation.

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ABOUT US

J.J. MacKay Canada Limited (MacKay Meters) is a recognized world leader in the parking control business. Incorporated in 1960, MacKay has gained global recognition by providing our customers with innovative products that are recognized as being on the leading edge of technology.

MacKay Meters, Inc., a wholly owned subsidiary of J.J. MacKay Canada Limited, was incorporated in September of 1996 in the State of Florida, USA. MacKay Meters, Inc. is the distributor of the MacKay product line throughout the United States.

J.J. MacKay Canada Limited is headquartered in New Glasgow, Nova Scotia, Canada, with a fully staffed Research and Product Development office in Halifax, Nova Scotia, Canada, as well as branch offices in Scarborough, Ontario, St-Jean-sur-Richelieu, Quebec, Vancouver, British Columbia and Sunrise, Florida.



QUALITY

Workmanship is paramount at MacKay Meters and we pride ourselves on having some of the most durable and energy efficient products on the streets today. If you are looking for a well-built meter that keeps working year after year, then look no further than the MacKay Meters product line.

EXPERIENCE

You will find very few companies in this industry with the kind of project experience that MacKay possesses. Being able to manage an installation of 500 paystations in just a few months or 1200 wireless meters in the middle of winter were achievements from months of planning and well-thought-out execution that can be drawn upon for your project. We have over 900 years of parking experience under our roof.



INTEGRATION

MacKay's ability to work with third party solutions allows us to concentrate on what we do best... make durable, well-designed parking meters. We have developed an interface through our Sentinel™ Meter Management System that supports easy integration of third-party solutions including phone payment, enforcement and street sensor solutions.

The MacKay Guardian™ X Series Mechanisms

The MacKay Guardian™ X Series mechanisms have been the most successful mechanisms in our history to date with over 500,000 sold worldwide. They are the most durable traditional single space mechanisms on the market.

There are three models: the X, XL and XLE. Each offers a coin payment solution while the XL and XLE offer an optional MacKay smart card payment solution.

Built to withstand the toughest weather conditions, these mechanisms are well-designed for on-street parking spaces that charge \$1 an hour and under. The XLE model can use a larger, more efficient battery pack and can operate, in some cases, for over 5 years on a single battery pack.



TRUSTED

The X Series mechanisms are the most reliable parking meter mechanisms in the world and are built to keep running on minimal power in all weather conditions.

FLEXIBLE

The XL and XLE models are designed to accept smart card payment either as a standard prepaid payment card or as a max-time log card. Log cards allow the user to pay for only the time they have used.

SECURE

The mechanisms are sealed in a solid zinc -alloy casing to ensure the electronics are kept safe and dry for years of service.

ACCURATE

Using MacKay's patented Smartchute™ coin validation technology, the X-Series mechanisms are programmable for up to 16 different coin / token signatures, boasting over 99.9% accuracy.

MacKay GUARDIAN™ X Series

Key features:

- The MacKay Guardian™ X series mechanism is the parking industry's most respected and foremost choice for single space parking meter solutions.
- The MacKay Guardian™ X Series is MacKay's most popular generation of electronic mechanisms. With three models to choose from, the X, XL and XLE utilize the proven MacKay Guardian™ pedigree of being tough, reliable and accurate.
- The MacKay Guardian™ X Series has been designed to meet the challenges, and demanding requirements of our customer's diverse single space parking needs.
- Designed for flexible enforcement, programming, battery use and ease of maintenance.
- Count Down Timer Accuracy and Real Time Clock Accuracy certified by an independent laboratory.

Features include:

- MacKay's patented SmartChute™ coin validation technology
- MacKay's patented SmartPower™ technology (XLE model)
- Exceptional battery life performance (XLE model)
- Automatically scheduled profile/rate changes,
- LED back light for night time use (XL & XLE models)
- Large easy to see, rear violation LCD.



Configuration Options

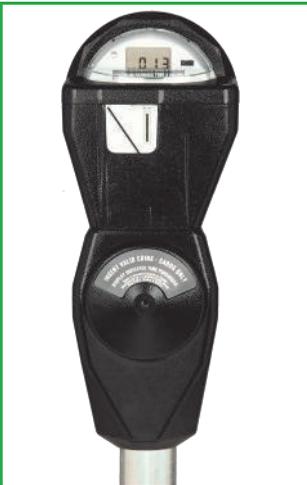
Model	X - coin only
	XL - coin/smart card/extended memory
	XLE - coin/smart card/extended memory
Options	1 button - freetime meter
	1 button - 2 bay meter
Power Options	4x AA pack or 1 x 9 Volt Pack (X, XL and XLE)
	2 x DD pack or 3 x CC pack (XLE only)

Durable and Trusted

MKH Housings

MacKay Meters produces some of the strongest and most secure, vandal-resistant housings in the industry. From our top-of-the-line MKH 4500, constructed completely of ductile iron, to the more affordable iron-zinc MKH 4000, to the basic but secure zinc MKH 1000, MacKay has the products and experience to find the right housings to fit your needs. Compatible with MacKay Meters' industry-leading electronic mechanisms and most competitive products.

All MacKay housings are distinguished by their "hex" shaped tops.



MKH 4500

The MKH 4500 is our top-of-the-line vandal-resistant single space housing completely constructed of durable ductile iron with special tapered design for increased strength and security. Includes a large coin can which can hold \$75 in US quarters.



MKH 4000

The top portion of the MKH 4000 is primarily zinc, a more affordable solution while still providing excellent security. The vault is made of ductile iron, similar to the MKH 4500 in size and design and includes a large coin can.



MKH 1000

The MKH1000 is a light-weight, light duty, housing for low security areas. Constructed of zinc for maximum resistance to oxidation. An economical solution for low risk areas. Includes regular coin can which can hold \$60 in US coins.

Parking Meter Accessories

So you have your new parking meters and have them housed in strong, vandal resistant housings. It's time to accessorize.

From collection carts to decorative poles, MacKay Meters has all the accessories you need to enhance your parking solution.

Single Can Collection Cart

The collection cart is designed to be a bank vault on wheels.



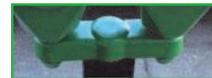
MacKay Decorative Pole Assembly

The antique look of the decorative pole sleeve allows the meter to blend in with the landscape. The decorative base is available in several colors.



Pole Yoke

Need a secure way to put two parking meters on one pole? MacKay's yoke is styled to match the look of the decorative pole or be used on its own.



Collection Pouch

For lighter collection duties that still require security from the handling coins, MacKay offers the collection pouch with carrying strap and secure collection head.



Our Premier Meter... the MKBeacon™ Meter

The mkBeacon™ wireless single space smart meter is a superior on-street solution that can accept coin, credit card, non-pin debit cards branded by the credit card brands, smart card, contactless credit card and mobile payments.

The mkBeacon™ meter uses solar power, has a large display with an easy-to-use piezo style keypad, and utilizes the latest payment technology; all while featuring a new modular design.

The exterior components of the mkBeacon™ meter are injection molded parts, made of an extremely durable, light-weight material that will not corrode. The precision fit minimizes gaps and water ingress into the meter. The meter's front and top components mate tightly with the tubular stainless steel rear exterior housing of the mkBeacon™ meter, and together provide a very strong, weather-resistant exterior casing. The interior bracketry is made with recyclable plastics.

Most importantly, the mkBeacon™ is **powered entirely by renewable energy**, running battery neutral with a large solar panel and rechargeable battery pack. Simply put, this meter is the industry's greenest and most technologically advanced parking meter.



GREEN

The mkBeacon™ meter has the largest solar panel of any single space parking meter, which can provide extended battery life. Internal components are built with recycled plastics to reduce the carbon footprint.

FLEXIBLE

The mkBeacon™ meter can support multiple payment methods and can be manufactured to support one or two spaces. Modular components provide future-proofing for upgrades.

STRONG

The mkBeacon™ meter was designed and built to withstand the punishment of severe weather in both hot and cold locations. It was also designed to withstand vandalism and abuse from normal use.

SMART

The mkBeacon™ meter includes a communications module that allows for the monitoring and auditing of key meter functions. It also allows for integration of mobile payment software.



Key features:

- Supports single-bay or two-bay parking.
- Contactless EMV™ payment, PA-DSS validated and FCC approved.
- Accepts coins, credit cards, contactless credit cards, smart cards and mobile payment.
- Uses MacKay's patented SmartChute™ coin validation technology.
- Green Technology - High efficiency solar panel providing long lasting power.
- Powered by 1 rechargeable battery pack.
- 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.
- Fits into most existing housings or ships with new vault and coin can ready for the street.
- Powerful off-site monitoring capabilities using Sentinel™ Meter Management System. Monitor your equipment remotely, generate reports, and receive alerts, no matter where you are.
- Display time purchased from mobile payment apps for easier visual enforcement.



Configuration Options	
Model	Single Bay - 4 button keypad
	Two Bay - 6 button keypad
Payment Options	Coin
	Credit card
	Smart card
	Contactless payment
	Integrated mobile
Communications	3G,4G, LTE
	EVDO
	Future Wi-Fi Option

Introducing the MacKay TANGO™ Pay Station

The MacKay Tango™ pay station is the most power-efficient pay station on the market today with a solar battery charge life of 2 to 3 years under normal lighting conditions. The pay station supports various payment options including coins, tokens, smart cards, and magnetic stripe and contactless credit cards and non-pin debit cards branded by the credit card brands.

Designed to be a smaller, lighter and more cost-effective solution, the MacKay Tango™ pay station still provides the vital functionality required by today's parking industry. It is easy to install and maintain, comes with a large, colour, display for rate/payment instructions and has an industry standard, heavy-duty printer.



GREEN

The MacKay Tango™ pay station sports the lowest power consumption of any pay station on the market today. We believe it is simply the "greenest" pay station you can buy with the lowest carbon footprint.

FLEXIBLE

The MacKay Tango™ pay station supports a wide range of payment options including coins, smart cards, credit cards, contactless credit cards, mobile phone payment and newer mobile wallet payment.

COMPACT

The MacKay Tango™ pay station takes up less space on street, offering a much less intrusive piece of street furniture. It measures only 53.5" in height (1359 mm) with a base of 13.75" x 12.4" (349 mm x 315 mm)

ECONOMIC

The MacKay Tango™ pay station is a much more economical solution than other pay stations. Built smaller and with fewer parts makes it a better choice for operators looking to maximize their capital investment.

Mackay TANGO™ Pay Station

Key features:

- High strength stainless steel keeps it secure and rust free.
- Integrated solar panel and long-life rechargeable commercial battery.
- Flexible, modular design that is easy to upgrade, service and maintain.
- Powerful off-site monitoring capabilities by adding a communications kit and Sentinel™ Meter Management System. Monitor your equipment remotely, generate reports, and receive alerts, no matter where you are.
- Customizable menus.
- Contactless EMV™ payment, PA-DSS validated and FCC approved. ADA Compliant.
- Features a large Liquid Crystal Display with back light, capable of displaying graphics.
- English? Español? Français? Supports multiple languages.
- Optional credit card payment. Offer end users security, convenience, and reject fraudulent payment. Use Mackay's On-line Real-time Credit Card Approval feature utilizing secure PCI compliant electronic payment processes.



Configuration Options	
Mode	Pay by Plate w/ alphanumeric keypad
	Pay and Display
	Pay by Space
Payment Options	Coin / Token
	Credit Card
	Smart Card
	Contactless Payment
	Integrated Mobile
Communications	3G,4G, LTE, HSPA
	EVDO
	Future Wi-Fi Option
Power	Solar with 18 Ah battery
	AC breaker with 18 Ah battery

The MacKay Guardian™ Multi Elite Pay Station

The MacKay Guardian™ Multi Elite is the most flexible pay station offering a complete list of features to customize to your needs.

Powered by AC or solar charged battery with either a 20 W solar panel or an integrated 10 W panel.

Accepted payment types include coins (up to 16 types), bills (user defined denominations), MacKay smart cards, credit cards, contactless credit cards and non-pin debit cards branded by the credit card brands.

Custom paint options available to match your colour choice (2 colours—cabinet and faceplate).

Full colour display with the user defined rate options and customizable instructions.



FLEXIBLE

The Multi Elite pay station offers superior customization to best fit your needs. From power, to payment options or from operational mode to customized displays, the Multi Elite can be tailored to your needs.

RELIABLE

The Multi Elite pay station has been running reliably worldwide in all types of climates and continues to be a popular choice for both off-street and on-street parking.

STRONG

The Multi Elite pay station is built with a stainless steel cabinet, high security locks, drill resistant doors and several additional security features and alarms to ensure it remains safe from vandals and thieves.

POWERFUL

The Multi Elite pay station supports more rate structures and menu options than other pay stations and meters. Fully programmable using Sentinel™ MMS and can provide hourly, daily, or seasonal passes.

Key features:

- High strength stainless steel keeps it secure and rust free.
- AC or two solar powered options with long-life rechargeable commercial battery.
- Support for paper currency through a bill acceptor.
- Powerful off-site monitoring capabilities by adding a communications kit and Sentinel™ Meter Management System. Monitor your equipment remotely, generate reports, and receive alerts, no matter where you are.
- Supports up to 10 separate rates in the menu.
- Contactless EMV™ payment, PA-DSS validated and FCC approved. ADA Compliant.
- Features and anti-pin device to prevent non-metallic objects from being inserted in the coin slot.
- English? Español? Français? The multi-language capability allows users to select the language of their choice to carry out transactions.
- Optional credit card payment. Offer customer security, convenience, and reject fraudulent payment. Use MacKay's On-line Real-time Credit Card Approval feature utilizing secure PCI compliant electronic payment processes.



Configuration Options	
Mode	Pay by Plate w/ alphanumeric keypad
	Pay and Display
	Pay by Space
Payment Options	Coin / Token
	Credit Card / Smart Card
	Bill Acceptor
	Contactless Payment
Communications	Integrated Mobile
	3G,4G, LTE
	EVDO
Power	20 Watt Solar with 40 Ah or 60 Ah battery
	10 Watt Solar with 40 Ah or 60 Ah battery
	AC Breaker with 18 Ah battery
	AC Breaker / Solar Hybrid option

The Powerful and Flexible Sentinel™ MMS With mkAnalytics™

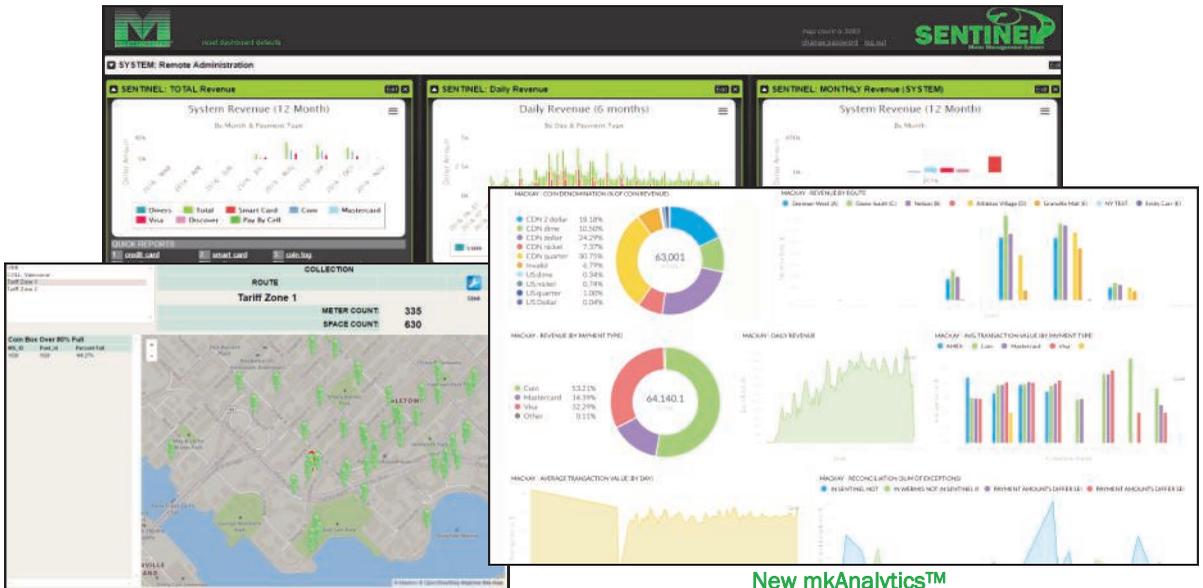


Sentinel™ Meter Management System (Sentinel™ MMS) is an advanced, next-generation "back office" monitoring software used for parking meter maintenance, financial auditing and so much more.

Sentinel™ MMS will enable designated staff to both manage, as well as monitor, the performance of their installed MacKay multi-space pay stations and their MacKay wireless single space parking meters on a web enabled PC, tablet, or mobile device.

Built with open architecture in mind, Sentinel™ MMS was designed to integrate with other applications from other companies. This gives you the flexibility to choose the right solution for your parking needs, while still maintaining a single application for financial reporting and parking enforcement.

mkAnalytics™ is a robust new report builder that allows you to design your own graphic reports and have them emailed to you each day. Want to track your occupancy or revenue and update your staff daily? It is easy with mkAnalytics™!



New mkAnalytics™

Mobile Payment

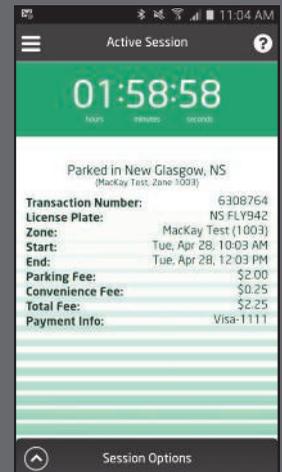
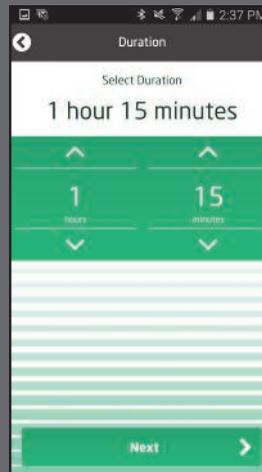
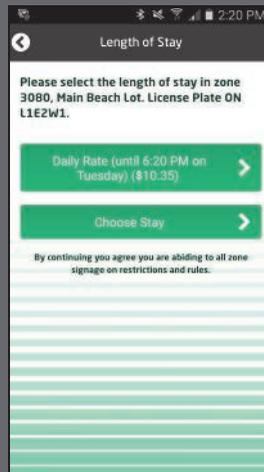
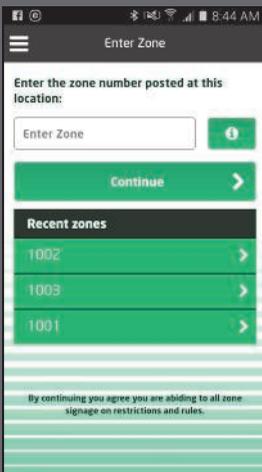
Mackay Pay™ Mobile Payment App

Mackay Pay™ Mobile Payment App is a powerful phone payment solution for parking. The technology works stand-alone or in conjunction with Mackay's meters and pay stations as an added form of payment. For wireless meters and pay stations, it is fully integrated with Sentinel MMS for both enforcement and financial reporting.

Once set up, the customer simply needs to download the free app from their app store (both Android™ OS and Apple® iOS versions are available) or from mackaypay.com. The first time the user runs the app or visits the website, they will be required to set up some user account information and payment method (credit card). After that, paying for parking takes just a few seconds each time and adding more time is easy.

The Mackay Pay™ app supports:

- Extending time
- Reminders of time expiry
- Emailed parking receipts
- User parking history



MacKay

Customer Service

MacKay places a strong emphasis on delivering the highest standards in customer service and training.

Support will be provided by MacKay's Customer Service department. The MacKay team includes specialists who have been involved in complex projects and who are flexible in managing both transitional and operational issues as they arise. The customer service department has supported our equipment throughout the world and has the unique ability to train customers and provide technical support for our products.

MacKay provides:

- On-site training and installation
- On-site maintenance (near support offices)
- Toll free support in North America from experienced support staff
- Train the trainer programs to help customers become proficient in MacKay technology
- Online video meetings for software training and visual walkthroughs.



MacKay

Locations



MacKay Service Offices—North American

Head Office: New Glasgow, Nova Scotia, Canada
(902-752-5124) or toll free (888-462-2529)

Quebec Office: St-Jean-sur-Richelieu, Quebec, Canada
(450-358-1791) or toll free (800-567-4475)

Ontario Office: Scarborough, Ontario, Canada
(416-609-1322) or toll free (800-265-5716)

MacKay Meters, Inc.—USA: Sunrise, Florida, USA
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MACKAY METERS™

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