

MackKay GUARDIAN™ MULTI

MackKay multi-space



Chip Card
Reload Station
upgrade available



Optional Integrated
Bill Acceptor for paper
currency payment



Pay by Space or
Pay and Display
configurations



MackKay
multi-space

MackKay Guardian™ Multi Multi-Space

Key features:

- High-strength stainless steel keeps it secure and rust free.
- High security, large capacity stainless steel cash box capable of holding in excess of \$700 in quarters.
- Microsoft® Windows® CE operating system, combined with a 32-Bit ARM® Processor, 32 MB of SDRAM and 32 MB of Flash memory.
- Flexible, modular design that is easy to upgrade, service and maintain.
- Powerful off-site monitoring capabilities by adding a communications kit, Multi Web and Remote Alert modules. Monitor your equipment remotely, generate reports, and receive alerts, no matter where you are.
- Comprehensive and easy-to-use configuration menus.
- ADA Standard for front and side reach (48").
- Features a ¼ VGA Liquid Crystal Display with back light, capable of displaying graphics.
- English? Español? Français? The multi-language capability allows users to select the language of their choice to carry out transactions.
- Offer end users security, convenience, and reject fraudulent payment. Use MackKay's On-line Real-time Credit Card Approval feature utilizing secure PCI compliant electronic payment processes.
- Manufactured under stringent ISO 9001:2008 certified quality processes.
- MackKay Meters backs its product lines with a solid warranty based on the confidence in the quality of its products.

<over for specifications>



General Specifications

Environmental & Safety

- Standard operating temperature range¹: -20°C (-4°F) to 50°C (122°F)
- Extended operating temperature range¹: -30°C (-22°F) to 50°C (122°F)²
- Humidity: Up to 95% RH (non condensing)
- Meets CSA C22.2 no.94-M91 3R Test (Rain Test) Standards
- CSA approved. UL approval pending

Cabinet Materials, Dimensions & Weight

- Welded reinforced Grade 304-2B stainless steel (9 gauge carbon steel equivalence)³ for cabinet and doors
- Aluminum front with Lexan® display covers for the LCD screens, rate/instruction plate, LED panel and site branding display
- Total installed weight (AC, 18Ahr battery, no options): 111.4 kg (245 lbs.)
- Overall dimensions: 1524mm (60 inches) (H) x 431mm (17 inches) (W) x 295mm (11.6 inches) (D)
- Overall height with solar panel: 2014mm (79.3 inches)

Power Supply Configurations/Options

- AC Single Phase, 110/120/220/240VAC, 50/60 Hz
- DC Stand-alone battery operation (optional)
- Solar powered (20W panel) with 40Ahr battery⁴ (optional)

Operating System & Hardware

- Microsoft® Windows® CE operating system
- Latest technology 32 Bit ARM® processor
- Memory 32MB SDRAM 32MB Flash
- Real time clock

Communication Options

- Ethernet port can support hardwire (Cat5) cable or add-on WiFi devices for local network connection⁷
- Serial RS232 port can support either GPRS, CDMA (1X) or a regular landline modem⁵
- Ethernet port can support a line-of-sight pay by space primary/secondary network configuration⁶
- Both wide area or local area pay by space network options are supported, allowing payment for any space, at any machine, at any time
- Wireless handheld pay by space enforcement available

Payment Systems

- Coins
- Bills (optional)
- Tokens (optional)
- Credit cards utilizing secure, on-line real-time PCI compliant processes (optional)
- MacKay Smart (Chip) Cards (optional)
- Cell phone payment (optional)

Ticket Printing

- Thermal printer offers alphanumeric printing in various fonts and languages
- Ticket size: Standard - Short 75mm (3 inches) x 57mm (2¼ inches) or Long 100mm (4 inches) x 57mm (2¼ inches). Other lengths can be specially ordered
- Ticket capacity of up to 4,000 3-inch tickets per roll

Components

Display

- High contrast, sunlight readable, 320 x 240 pixels graphics LCD
- Viewing area 121mm (4¾ inches) x 91mm (3 5/8 inches)
- Self-adjusting contrast to temperature
- LED back light

Coin Acceptor

- Programmable: Accepts up to 16 coins or tokens
- Programmed coin acceptance can easily be turned on/off with a switch

Bill Acceptor (Optional)

- Built-in, integrated bill acceptor
- Bill cassette with 600 bill capacity secured in cash vault
- Programmed bill acceptance can easily be turned on/off on-site
- Reads bills inserted in any of 4 orientations

Card Reader (Optional)

- Single slot, dual mode card reader captures magnetic stripe (ISO 7810/11) credit card data, and provides an ISO 7816 interface for chip card acceptance

Keypads & Buttons

- Tactile feedback keypad and buttons
- Vandal resistant and rated for resistance to impact, shock and vibration to MIL standards
- Sealed against ingress of water and dust to IP67, and designed for exposed outdoor and extreme environmental conditions

Printer

- Heavy-duty printer head with minimal moving parts ensuring quality, reliability and endurance
 - Print life of over 20 million character lines
 - Designed for high-resolution printing
 - Guillotine type cutter with full or partial paper cutting options (software selectable)
- Accessible for ease of maintenance

Cash Box

- Two (2) supplied with each machine, each with a convenient carry handle
- Rugged, secure, high-capacity 5.3 litres (1.4 US gallon), stainless steel container
- Self-locking lid on removal, and includes a high security lock/key (unique key codes available upon request)
- Printed audit record produced when cash box is removed from machine (software selectable)

[1] All MacKay Guardian™ Multi components are operational within this range. Standard sealed lead acid battery operational temperature rating is from -20°C (-4°F) to 50°C (122°F) when charging, and from -20°C (-4°F) to 60°C (140°F) when discharging.

[2] Either AC or DC heaters and/or other components are required for extended operating temperatures.

[3] Independent laboratory tests indicate that all things being equal, a component made of 11-gauge 304-2B stainless steel, would have equal or greater tensile strength, shear strength and malleability, as compared to the same component made out of 9-gauge carbon steel.

[4] Extended temperature 70Ahr battery available (optional).

[5] May require additional MacKay Guardian™ Multi software modules, or 3rd party hardware.

[6] Length of run limitations must be observed; primary machine is AC powered and network hub required.

Features

Security

- High security locks for cash box, cash vault, and main door
- Seven (7) point locking mechanism on vault door
- System monitored access sensors on main and vault doors and sensor detecting presence of cash box

Audit and Statistic

- Local printouts of grand totals and subtotals for coins, bills and card transactions per type
- Full or quick audit tickets are software selectable

Maintenance

- User-friendly graphic interface tools for diagnostics, configuration and editing
- Easy access modular design

Configuration

- Flexibility through the MacKay Guardian™ Multi user interface
- User-friendly menus allow selection of tariff, ticket and display files
- Programmable multiple tariff structures such as overlapping period, pre-payment and free ticket
- User interface (display, keypad and dedicated software), provides clear and concise operating instructions, messages, and graphics
- Multi-language capability: any combination of English, French and/or Spanish is available as an option. Other languages available by special order

Desktop Multi Web Management Software (Optional)

- Remotely monitor and generate audit, transaction and occupancy reports for all on-street equipment
- Generates a variety of reports including grand totals and subtotals for coins and card transactions per type, which can be exported as PDF or CSV files, or imported into other applications

MacKay Guardian™ Multi Options

- AC Fan
- AC Heater Kit, includes an AC heater and an AC fan
- Customizable front graphics for main door
- LCD heater (DC) for solar powered units that are required to operate in extended operating temperature range
- Keypad feedback buzzer
- MacKay's Multi Management Software

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.

As our policy is one of continuous product improvement and development, we reserve the right to alter product specification and design. Photos are representative; product appearance may differ.

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Head Office:

J.J. MacKay Canada Limited Phone (902) 752-5124
1342 Abercrombie Road, PO Box 338, Fax (902) 752-5955
New Glasgow, Nova Scotia, Canada B2H 5E3

Head Office customer support and technical support:

Toll free in North America: 1-888-4MACKAY
(462-2529)

Fax (902) 752-4889
Email customer.service@mackaymeters.com
Web www.mackaymeters.com

Sales Office:

