

Formula 734-E and Formula 734-E/RF

Pocket-sized Laser Terminal



EasyGen™

DS™ Formula™

forwin™



GENERAL DESCRIPTION

The Formula 734-E and Formula 734-E/RF are lightweight, pocket-sized and fully programmable terminals claiming the greatest sales success of the Datalogic MC range. With 1MB of RAM memory for managing large databases and 512KB of Flash memory for application programs, these terminals solve the most complex application needs and exploit the "overspeed" feature to boost software performance. Equipped with a practical 25-key alphanumeric keyboard that allows data, codes and descriptions to be input very quickly and a wide backlit LCD display which clearly shows much information, these devices represent the ideal solution for many applications in the Retail, Transportation & Logistics and Manufacturing markets. Both the F734-E batch version and the F734-E/RF Radio version offer excellent reading performance, that allows bar codes to be scanned up to a distance of 70 cm, and long life batteries that assure great autonomy, capable of covering more than one work shift.

By using the optional EasyGen™ Application Generator or the DS for Formula™ software packages, developers can easily customize any batch application according to the end user's specific needs. The most common data collection operations such as inventory, picking and shipping/receiving become easy to perform. The Formula 734-E/RF radio terminal is the right choice for exploiting all the benefits of mobility and real-time communication. Completely compatible with Datalogic's STAR-System™, it offers a reliable and cost-effective solution. Software developers can take advantage of the power and completeness of DS for Formula™ and of the flexibility and ease-of-use of ForWin™ when building personalized applications. Thanks to their excellent price/performance ratio, Formula 734-E and Formula 734-E/RF represent an optimal solution for many applications in many different markets.

FEATURES

- Extremely compact and sturdy
- Lightweight (184 g Batch/215 g RF)
- Large data/program memory capacity and "Overspeed" capability
- User-friendly interface
- 100% compatible with STAR-System™
- Conformity to the European ETSI standard EN 300 220-3
- Excellent price/performance ratio

APPLICATIONS

- Goods shipping/receiving
- Inventory/Picking
- Warehouse management
- Shop Floor
- Access Control
- Order management
- Shelf price-checking
- Goods re-assortment in POS

Formula 734-E and Formula 734-E/RF

Specifications

PHYSICAL CHARACTERISTICS

DIMENSIONS	Batch model: 165 x 56 x 32 mm (6.5 x 2.2 x 1.3 in) RF model: 209 x 56 x 37 mm (8.2 x 2.2 x 1.5 in) including antenna
WEIGHT	Batch model: 184 g (6.5 oz) including battery RF model: 215 g (7.6 oz) including battery
DISPLAY	Graphic high-contrast LCD with backlight
SCREEN FORMAT	4 lines x 16 characters
OPERATING TEMPERATURE	0 to 50 °C (32 to 122 °F)
STORAGE TEMPERATURE	-20 °C to 70 °C (-4 °F to 158 °F)
RELATIVE HUMIDITY	95% without condensation
DROP RESISTANCE	Resists several drops onto concrete
ENVIRONMENTAL PROTECTION	Industrial, protected against dust and water

PERFORMANCE

OPERATIVE SYSTEM	Datalogic proprietary
PROCESSOR	8 bit CMOS
PROGRAMME MEMORY	512 KB Flash dedicated to the application program
DATA MEMORY	Batch model: 1024 KB RAM for data RF model: 512KB RAM for data
KEYBOARD	Alphanumeric with 25 silicon rubber keys
SIGNAL TO OPERATOR	Bicolor LED; piezoelectric buzzer; programmable frequency and duration
CLOCK/CALENDAR	Quartz controlled RTC; programmable date and time

COMMUNICATIONS

RF COMMUNICATION	
RADIO FREQUENCY	433.92 MHz
RADIO POWER OUTPUT	<10 mW
RADIO RANGE*	50 m (164 ft)
DATA TRANSFER RATE	Up to 19,200 bauds
CONFORMITY	European ETSI standard EN 300 220-3
SERIAL COMMUNICATION	
DATA TRANSFER	Infrared (via optocoupler) between F734-E and F951 or F950/4, RS232 or RS485 between F951 or F950/4 and PC or Host Transmission speed: up to 115 Kbit/sec

*The radio range depends on the environment's characteristics

POWER MANAGEMENT

POWER SOURCE	Batch model: 250 mAh NiCd rechargeable batteries RF model: 650 mAh NiMH rechargeable batteries
AUTONOMY	Batch model: 18h, with reading every 45" RF model: 24 h, with reading every 45"
BATTERY CHARGING	Via Formula 951 single slot Transceiver/Charger or Formula 950/4 multiple slot Transceiver/Charger

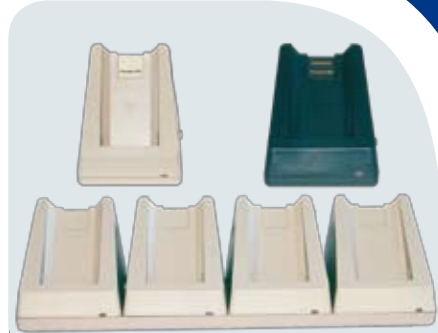
SCANNER AND BARCODE CHARACTERISTICS

SCANNING RATE	35 ± 5 scans/sec
MINIMUM RESOLUTION	0.15 mm (6 mils)
DEPTH OF FIELD	3 to 70 cm (1.2 to 27.6 in), depending on bar code density
SCAN ANGLE	42° ± 2
BAR CODES	EAN 8, EAN 13, UPC/A-E, 2/5 family, Code 128, Code 93, Code 2/7, Code 3/5, 3/9 family, MSI, DELTAA IBM
LASER CLASSIFICATION	VLD - Class II



Caution: Laser Radiation - do not stare into beam

Accessories



Single cradles and 4-slot transceiver/charger



Rubber Cover



Belt Holster



Functional Case

Please refer to user manual available at www.mobile.datalogic.com/manuals for information on product use limitations.

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