



Formula 734-734/RF

Pocket Laser Terminal

Features

- Extremely compact and rugged
- Weighs in at just 180 grams
- Ample memory capacity
- Extended operating temperature range

General Description

Light, portable and completely programmable, the Formula 734 is the PDC Line best selling product and it is available in both batch and wireless versions.

The wireless model, Formula 734/RF with radio frequency connection, is compliant with the European standards ETSI 300-220, meaning it requires no licence application by the end user.

Weighting in at just 180 grams, this micro-terminal completes the entry-level Formula line, but offers the performance and functions typical of the higher product classes.

With RAM availability of up to 1 MB, it is suitable for managing large data bases and its laser reading capacity allows the barcode to be read at up to 70 centimetres' distance, while the rechargeable NiCd batteries give more than a 15-working-hour autonomy.

Appearances can be deceiving: despite its size and weight, the Formula 734 is designed for rugged industrial use in all conditions.

Shock-proof (fully tested in drops from 1 meter onto concrete), water and dust-proof, the Formula 734 performs effectively everywhere, in an unlimited variety of fields and at temperatures ranging from -20°C to +50°C.

The large back-lit LCD graphic display, with 4 lines of 16 characters, constantly shows all operations and features control/status icons (date/time and battery charge level) for an optimal activity planning.

These features together with the 25-button alphanumeric keyboard, enable a real user-friendly interaction between user and terminal itself.

Thanks to the Development Tools designed specially by Datalogic for developing customized software, the user can easily program the terminal to fit different needs.

For all requirements, Datalogic offers a complete choice of development tools and ready-to-use applications. The Utility Tools package is one example, especially recommended for tackling the most common automatic identification problems.

It also includes applications for PCs and the Formula 734, in both batch and radiofrequency versions.

The package is for users and developers alike who want a complete package that supports of the most popular operating environments such as MS-DOS, Windows 3.1, Windows 95, Windows NT and OLE.

Development System (DS) for programming in C and PowerGen 2000 for windows 95 or NT are two packages specially designed for application development.

They can be optionally supplied together with the terminal to guarantee the best possibility of exploiting the Formula 734's full potential.



Formula 734 and Formula 951 Transceiver/Charger

Formula 734 communicates with the host or any Personal Computer using different connection systems, both wireless (Formula 734/RF) and wired.

Local Communication

Data can be downloaded in the batch mode using the single station Transceiver/Charger Formula 951 or the multiple station Formula 950/4.

The communication line can be an RS232 direct serial line or Eavesdrop, an RS485 or keyboard emulation with Formula 67 - Microdecoder.



Formula 734/RF and Formula RF/SAT

Wireless communications using RF

Communication between terminal and host for distances of up to 50 meter is made possible using a Radio Frequency satellite (Formula RF/SAT), which is standard-approved, but not subject to licence or with minimal regulatory and administrative requirements (depending by country).

Formula 734/RF maintains a bidirectional link with one or more RF/SAT satellites.

The satellites can be distributed in the warehouse, inside the factory or distribution centre to guarantee the desired radio coverage.

The application of Formula 734/RF in many different sectors, from logistics to large scale distribution, from industry to fast-food, has an enormous benefit: it carries information immediately from the centre to peripheral and vice versa directly from the operator who can move freely in a local area.

Formula 734 & 734/RF Pocket Laser Terminal Specifications

Operating System	Datalogic proprietary
Processor	8 bit CMOS
System memory	64KByte Flash dedicated to application program 128, 512, 1024 KByte RAM for data
Display	high-contrast back-lit graphic LCD
Screen formats	4 lines of 16 characters
Keyboard	25 keys, alphanumeric silicone rubber keyboard
Signal to operator	- bicolor LED - piezoelectric buzzer software programmable in frequency and duration
Clock Calendar	quartz controlled Real Time Clock , programmable date and time
Integrated laser scanner	light source: Class 2 VLD laser scanning rate: 36 scans/sec minimum resolution: 0.15 mm depth of field: 3 to 70 cm, depending on bar code thickness reading angles: $\pm 65^\circ$ skew, $\pm 55^\circ$ pitch decoded symbologies: EAN/8, EAN/13, UPC/A-E, 2/5 Interleaved-Matrix-Industrial, 128, 93, 2/7,3/5, 3/9,128, MSI, DELTA A IBM
Serial communication	via infrared (by optocoupler) between Terminal and Transceiver/Charger RS-232 or RS-485 between Transceiver/Charger and PC or Host data rate: 300 to 19200 bit/sec
Wireless communication (F734/RF)	Formula 433MHz Wireless Communications not subject to licence or with minimal regulatory or administrative requirements (depending by country) frequency: 433.92 MHz, Narrow Band transmission distance: more than 50m* radius indoors; up to 70-80m* radius outdoors data rate: 9600 bit/sec power output:<10mW certifications: Europe - ETSI 300-220
Power source	250mAh NiCd rechargeable batteries
Autonomy	18 hours, with reading every 45" 15 hours, with reading every 45" (Formula 734/RF)
Battery charging	via Formula 951 single slot cradle or Formula 950/4 multi slot cradle
Environment	industrial water jettings and dust protection drop resistance: 1m onto concrete electrostatic discharge protection: up to 15KV operating temperature: -20° to +50° C
Dimensions	165 x 56 x 32mm
Weight	180 grams 191 grams (Formula 734/RF)

Formula 734 & 734/RF Pocket Laser Terminal Accessories

- > Development System (DS-734)
- > PowerGen 2000, Rapid Application Development System
- > Utility Tools for Formula 734 application package
- > Formula 433MHz Narrow Band Wireless Communication System
- > Formula 951 single slot Transceiver/Charger
- > Formula 950/4 multi slot Transceiver/Charger
- > Leather holster for Formula 734

DATA LOGIC **DL**

Bar Code & More

We reserve the right to make modifications and improvements

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