



Formula 7400 Pro

Palm Laser PC

Features

- Based on a 486 processor
- Powerful, compact and light
- Open system architecture
- Integrated Full RS-232 and IrDA ports
- IP 53 protected

Applications

- Inventory control
- Goods picking
- Goods shipping/receiving
- General warehouse management
- Shelf price verification
- Shelf replenishment

General Description

The **Formula 7400 Pro** is the new mid-range powerful portable terminal, based on PC technology, designed by Datalogic.

As is the tradition of the Formula products, this technologically and stylistically refined Palm Laser PC has been conceived and realized to offer users a compact and lightweight product, one that combines convenience with top-notch performance characteristics.

Thanks to the DOS Operating System and the powerful 486 32-bit processor its hardware architecture is based on, the **Formula 7400 Pro** can be easily integrated with the most popular information systems.

Also, by using the *Development System 7400* based on standard C compiler integrated with special Datalogic libraries, it can be easily programmed by developers who are already familiar with the PC environment.

By being adaptable to the widest variety of application requirements, with its integrated laser scanner, the **Formula 7400 Pro** provides you with performance precision in scanning the commonest symbologies and at the same time high processing speed and memory capacity.

Thus the terminal can manage large databases and effectively operate in a host of application sectors: from retailing, industry, and services - where many complex control, checking and data-collection operations are performed daily.

The **Formula 7400 Pro** also meets equally important requirements such as high autonomy, resistance to falls and bumps and protection when working in unfavorable environmental conditions.

Users can indeed rely on over 33 hours of operational autonomy, thanks to the NiMH battery pack, which can be replaced if necessary with normal alkaline batteries and on the excellent structural sturdiness of the **Formula 7400 Pro**, which is excellently protected against dust and water jettings.

Conceived to best meet the operative needs of today's data collection world, the **Formula 7400 Pro** is a work instrument which is reliable, flexible and highly productive.

User Interface

The user interface is particularly well designed: the 37-key alphanumeric keyboard allows access to a full range of functions and to rapidly and intuitively interact with the terminal.

The large, high-contrast back-lit LCD display (with 96 x 64 pixel resolution), instead, clearly allows the operations to be read under all types of lighting conditions.

Developers can use the screen format that best suits their application requirements, and have various options available: from a minimum of 13 characters by 6 lines to a maximum of 24 characters by 8 lines.



Serial Communication

RS-232 or RS-485 serial-mode data transmission can take place by replacing the terminal into the *Formula 970* Transceiver/Charger or - even more simply - by connecting the PC, modem, printers or any other equipment directly to the complete RS-232 port, which is integrated into the **Formula 7400 Pro**.

Thus the operator no longer has to use the *Formula 970* only, for data transfer operations.



F7400 Pro and F970 Transceiver/Charger



Integrated Full RS-232 and IrDA ports

Serial Communication (continued)



Wireless infrared communication via integrated IrDA port

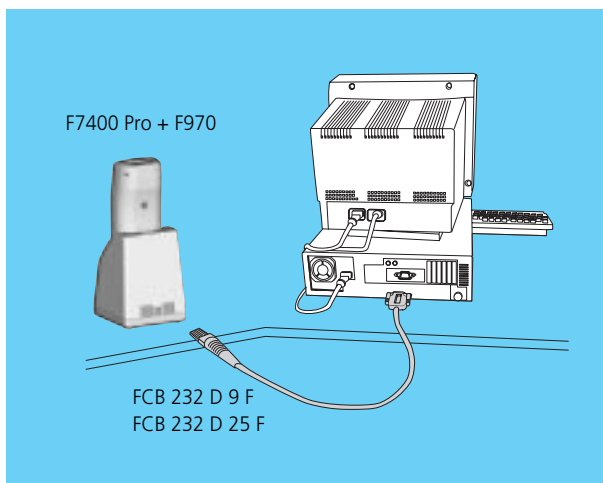
Lastly, the **Formula 7400 Pro** has a IrDA port that, with the dedicated optional software driver, can be conveniently used for short-distance infrared communications.

For applications requiring connection with several *Formula 970* Transceiver/Charger, Datalogic offers the *Sysnet* network.

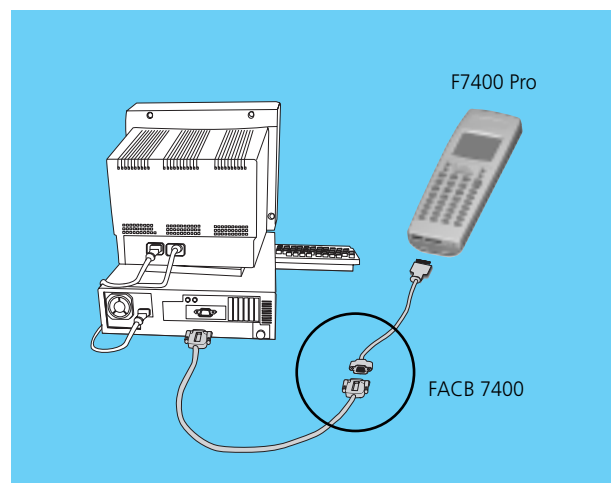
Models and Accessories

MODEL	DESCRIPTION	ORDER NO.
F7400 2+2 R	F7400 Pro 2MB+2MB Palm Laser PC - 37 keys - NiMH rechargeable battery pack	942100000
F7400 8+4 R	F7400 Pro 8MB+4MB Palm Laser PC - 37 keys - NiMH rechargeable battery pack	942100010
F7400 2+2 A	F7400 Pro 2MB+2MB Palm Laser PC - 37 keys - battery pack for alkaline batteries	942100120
F7400 8+4 A	F7400 Pro 8MB+4MB Palm Laser PC - 37 keys - battery pack for alkaline batteries	942100130
F970	IrDA Transceiver/Charger	94A15440X
F970/C	Charger	94A15450X
F970/V	Vehicle IrDA Transceiver/Charger (without power supply)	94A154390
FRBP 7400	NiMH rechargeable battery pack	94ACC4340
FABP 7400	Battery pack for alkaline batteries (without batteries)	94ACC4350
FCB 232 D 9 F	RS-232 serial connection cable for PC / AT T 8 M - D 9 F 2m	94A054000
FCB 232 D 25 F	RS-232 serial connection cable for PC / XT T 8 M - D 25 F 2m	94A054010
FCB 485 SYS	RS-485 serial connection cable for SYSNET 2m	94A054020
FCB EAV	Eavesdrop cable kit 2+2m	94A054030
FACB 7400	RS-232 adapter cables kit	94A054240
DEVELOPMENT SYSTEM F7400	C libraries for software development	94A104670
DEVELOP. SYSTEM F7400 + C COMPILER	C libraries for software development + C Compiler	94A104680

Connections



Typical RS-232 serial connection



Direct serial connection via integrated RS-232 port

Specifications

Operating System	• ROM DOS 6.22, • Datalogic Proprietary BIOS
Processor	• True 32 bit 486, 16MHz
System memory	• 2MB RAM, 2MB Flash • 8MB RAM, 4MB Flash • RAM: for system operation and virtual-disk data storage • Flash: non-volatile memory for virtual-disk storage of applications and data files, 384KB dedicated to DOS and BIOS
Display	• high-contrast graphic LCD • resolution 96x64 pixels • EL backlight feature • keyboard controlled contrast
Screen formats	• 24 characters by 8 lines; 16 characters by 8 lines; 12 characters by 8 lines; 13 characters by 6 lines;
Keyboard	• 37 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: VLD - visible laser diode • 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, MSI, 3/9 Standard-Extended, 2/5 Interleaved, Codabar, 128, 93, UCC/EAN 128
Serial communication	• Integrated IrDA communication port • Integrated full 9 pins RS-232 port • RS-232 or RS-485 via F970 Transceiver/Charger • data rate: up to 115 Kbps
Power source	• removable battery pack with NiMH rechargeable batteries • removable battery pack with AA-size alkaline batteries • supercapacitor to back-up system RAM during battery pack change • lithium back-up to preserve set-up data
Autonomy	• 33 hours, with reading every 60" (NiMH batteries) • 40 hours, with reading every 60" (alkaline batteries)
Battery charging	• via F970 IrDA F970 Transceiver/Charger
Environment	IP 53 protected drop resistance: 1.2 m onto concrete electrostatic discharge protection: up to 15KV operating temperature: 0 to 50° C
Dimensions	179 x 62 x 23/35 mm
Weight	300 grams, batteries included

DATA LOGIC **DL**
Bar Code & More

We reserve the right to make modifications and improvements

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