



PHL 2700

handheld terminal

The PHL2700 terminal is a programmable handheld terminal, well suited for a variety of indoor portable applications. In the standard version the PHL2700 is provided with a barcode laser scanner for identification. Optionally the PHL2700 dual reader is available to read both barcodes and RF-ID tags. Alternatively it can be equipped with RF data communication (RD-DC).

The PHL2700 terminal can be programmed in C-language. The clear and easily readable graphic display enables the user to use the terminal in combination with advanced application programs.

Operating power is supplied by the main battery. A rechargeable battery pack, that can be charged in the cradle, or non-rechargeable penlite batteries can be used.

For communication the PHL2700 is provided with an IrDA interface. Through this interface the terminal is able to communicate with the cradle, or apart from the cradle to all computer devices that use IrDA. Also belt printers can easily be approached by the PHL2700 thanks to the smart location of the IrDA window.

Features

Benefits

■ Rechargeable Nickel Metal Hydride ■ Long life batteries battery pack	
■ 8 MB Memory available	■ Enables continuous working even with large data storage
■ Easily readable graphic display	■ Enables advanced applications
■ RS232 data transmission by cradle	■ Easy data storage into the computer system
■ Built-in IrDA interface	Ideal to use together with portable computers, like note books.
■ Optional RF reader	 optional model available to read bar codes and radio frequency tags



IRU2700 cradle for terminal and rechargeable battery pack



Data collection programmability and portability in one terminal



PHL2700 handheld terminal

Electrical specifications

Main battery rechargeable pack: Ni-MH

dry cell: Alkaline penlite

optional: other 2 x AA-size penlite

Main battery operating time

□ Ni-MH: When making every 5 seonds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on. operating time is: approx. 40 hours

□ Alkaline: When making every 5 seonds 1

scan

with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 78 hours Different operation conditions affect the

operating time

Use of other penlite batteries affect the

operating time

Backup battery Lithium (CR2032)

Backup battery operating time

If fully charged: 30 days backup time

Battery management Low voltage indicated on the terminal display.

□ When battery is low the terminal switches off automatically.

Charging method □ Rechargeable Ni-MH pack in terminal via

cradle

Optical specifications

Light source 650 nm visible laser diode

100 scans/sec Scan rate Decode rate 100 decodes/sec 62 mm at 30 mm Reading width 111 mm at 100 mm

Resolution at PCS 0,9 0.15 mm (6mil)

0 - 140 mm (at PCS 0.9, res. 0.25) Depth of field

Physical specifications

Dimensions (I x w x d) 177 x 62 x 41 mm

Case material ABS

Weight body (excl. battery): 175 g

optional for maintenance: RS232 - DB9 female Direct cable

Functionality

ROM: 32 kB Memory

☐ FlashROM (for O/S and program): 512 kB

☐ fast RAM: 2kB

□ battery backed up D-RAM (for data): 8 MB

Microprocessor

Real time clock Quartz RTC, time and date programmable,

leap year handling, (accuracy ± 60 sec./month)

□ 128x64 Pixels graphic LCD with backlight Display

Character fonts:

4/8 lines x 16 characters 5/10 lines x 21 characters

□ 27 keys total (26 keys user definable) Keyboard

□ 8 Function keys □ Alpha/Numeric mode

Trigger mode Manual

Programming Functionality is provided by user application. The

application may be downloaded from PC via cable,

com port or IrDA.

□ RS232 by direct cable Interfaces supported RS232 by cradle

IrDA on terminal

Transmission speed RS232 direct cable: 2400 - 115200 baud

☐ RS232 cradle: 2400 - 115200 baud □ IrDA terminal: 2400 - 115200 baud

Environmental specifications

□ -10 - 40 °C in operation Temperature

□ -20 - 60 °C in storage

□ 20 - 80 % in operation Humidity (non condensing) □ 20 - 90 % in storage

Shock: drop: 1.5 m drop onto concrete surface

Shock: vibration: 10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z.

Ambient light rejection ☐ fluorescent 3.000 lux max.

direct sun 50.000 lux max.

According to EN50081, part 1 Emission According to EN50082, part 1 Immunity

Protection against

dust and moisture According to IEC529, IP 42

Safety, Laser class According to IEC825, Class I laserproduct

Chinese Post 2of5 - Codabar incl. ABC and CX - Code 39 - Code 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13 incl. +2,+5 Supported

IATA - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - Laetus - Matrix 2of5 symbologies

MSI/Plessey - UK/Plessey - S-Code - Telepen - UPC-A incl. +2,+5 - UPC-E incl. +2,+5

IRU-2700 cradle

Electrical specifications

8 hours charge

Functionality

Interfaces supported □ RS232

□ RS485

Serial communication

RS232 Baudrate: 1200 - 115200 □ RS485 Baudrate: 1200 - 115200

Transmission modes ☐ Half duplex RS232

□ Half duplex RS485

Parity Odd, Even, None

Environmental specifications

Temperature 0 - 40 °C in operation

□ -20 - 60 °C in storage

Humidity □ 30 - 85 % in operation □ 30 - 90 % in storage (non condensing)

Shock: vibration: 10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z.

Emission According to EN50081, part 1 Immunity According to EN50082, part 1

Physical specifications

Dimensions (I x w x d) 150 x 90 x 81 mm

Case material ABS Weight 250 g

Standard connector RS232 - D Sub 9P Female

RS485 - 6 pins modular plug

Specifications are subject to change without notice. Printed 09-2001/2003