Industrial Data Capture and Control Terminals

- **Flexible Open Architecture System**
- **Batch or Real-time Data Collection**
- **Environmentally sealed to an IP54 rating**
- **16 User Programmable I/O Ports**

Ideal for...
- **Shop Floor Data Collection**
- **Warehouse Management**
- **Labor and Asset Tracking**
- **Industrial Process Control**

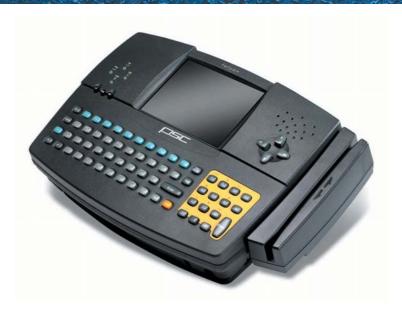### We had your multiple applications in mind

The Falcon 510 and 515 are the latest members of the reliable, feature rich Falcon line of industrial data collection equipment from PSC. This new rugged fixed station terminal was designed with flexibility in mind; supporting open systems architecture, an extensive set of host connectivity options and interface capabilities for a wide array of data input devices, including relay protected I/O ports. These rich features combined with an attractive price enable the Falcon 510/515 to operate in a wide variety of stand-alone and enterprise-wide data collection and system control applications.

The Falcon 510/515 has a powerful 486 class processor, running at 33MHz, and operates under DOS 6.22. The Falcon comes standard with 8Mb of RAM, 2Mb of Flash ROM, two internal PCMCIA Type I/II slots, a 15-line x 40 character mono or color display and full 69 key QWERTY keypad. Because the Falcon 510/515 uses a standard operating system, you can run applications previously developed for portable Falcon terminals or other DOS computers. You can also use popular PC development tools like PSC's Universal Program Generator to create custom applications for your data collection and system control needs.

Innovative Host Connectivity

The Falcon 510/515 supports an extensive set of host connectivity solutions. The 510 serves as the ideal batch terminal supporting both serial connections and modem communications for remote applications. With the fast 486 processor and 8Mb of on-board RAM coupled with the capability to add additional flash memory, the Falcon 510 can power even the most complex batch applications.

The Falcon 515 sets the standard for flexibility allowing both wired network and RF connectivity to your host. When configured as a device on your Ethernet LAN you get the benefits of real-time data sharing and storage at the central server. The RF wireless network capability provides the connectivity for data collection applications where physical limitations prohibit hardwiring and real-time information is critical. The Falcon 515 can be configured with any of the leading wireless 2.4GHz spread spectrum radio options which include Aironet/Cisco, Lucent, Proxim and Symbol.

Additional flexibility comes when you use the Falcon 515 as a terminal on your existing legacy system. With our PowerNet software these new Falcon terminals can support VT100, VT220, HP700/92, IBM 3270 and IBM 5250 terminal emulations, with the ability to operate in both sever and server-less environments.

A Multitude of Data Input Options

The Falcon 510 and 515 were specially designed to support your various data input needs, along with the standard QWERTY keypad, the system can be configured with an integrated reader for magnetic stripe or bar code swipe cards for labor tracking or security applications. Additionally the Falcon 510 and 515 can receive input from bar code wands, undecoded laser scanners, and imaging scanners while controlling standard RS-232 devices such as line printers, bar code label printers and scales. Finally, the Falcon 510 and 515 can be configured with 16 User programmable I/O ports; 8 optically isolated digital inputs and 8 relay protected digital outputs. This unique feature enables these new fixed station terminals to be used for custom process and control applications.

Designed for Rugged Applications

The Falcon 510 and 515 were designed from the beginning with your tough industrial environment in mind. The enclosure system is made using a durable high-impact resistant polymer and is sealed to an IP54 rating. This allows our new Falcon terminals to be used in some of the harshest environments around, including wind blown dust and driving rain. And don't worry about those cold warehouse applications, the Falcon 510 and 515 operate over a wide temperature range, from freezing to 122º F (50º C).

Additional Features

- *Internal speaker with programmable tone and volume*
- *Connection for an external speaker*
- *Wall mounting bracket with service hinge feature*
- *Rechargeable battery backup for protection of vital data*
- *Internal decoder allows autodiscrimination of 20 different bar code types*

psc

EXPANDING TECHNOLOGY. FOCUSING SOLUTIONS.

Falcon™ 510 & 515 Data Terminals

SPECIFICATIONS

MECHANICAL

Dimensions	12.0 x 9.0 x 2.7" (30.5 x 22.9 x 6.9 cm)
Weight	5.0 lbs. (2.3 Kg)
Construction	Industrial, high-strength polycarbonate/ABS-blend plastic

ELECTRICAL

- *AC power via an external (12v output) wall adapter*
- *Rechargeable Nicad backup battery*

ENVIRONMENTAL

Temperature Rating

• *Operating*	32° to 122° F (0° to 50° C)
• *Storage*	-4° to 158° F (-20° to 70° C)
Humidity	5 to 95% NC
Water & Dust	IEC529 rating IP54DW

DECODING CAPABILITY
(autodiscriminates between)

- *Ames*
- *Code11*
- *Code 39 Full ASCII*
- *Code 128*
- *ISBN conversion*
- *Matrix 2 of 5*
- *Pharmacode 39*
- *UPC A, E / EAN 8,13 / JAN 8, 13* (UPC/EAN/JAN extentions)
- *Codabar*
- *Code 39*
- *Code 93*
- *Interleaved 2 of 5*
- *Label Codes 4/5*
- *MSI*
- *UCC / EAN 128*

SAFETY / REGULATORY

Electrical/Emissions	Complies to: CE; TÜV; FCC-B; EN 55022-B BCIQ CNS13438; AS/NZS 3548; VCCI-B

SYSTEM

Operating System	ROM-DOS 6.22
Microprocessor	AMD ELAN® Am486™ SC400 Low Power, 32-bit microprocessor with system logic, and 8 KByte L1 cache; Programmable speeds up to 33 MHz; Real-time clock
Memory	Flash: 2MB (DOS, BIOS, applications and data storage); RAM: 8MB (for system operation and virtual-disk data storage); expandable up to 32 Mb with PC card
Input Devices	Tethered Bar Code Reader Support; One connector for undecoded laser scanners or wands; One connector for Mag-Stripe Reader (tethered) or wand
Integrated Input Device	Optional integrated bar code badge or mag-stripe swipe reader
Serial Ports	Two 9-Pin D RS-232 ports; with 16550 UART, up to 115 kbps
PC Card Slots	Two Internal PC Card Type I/II slots for factory installed RF radio cards, ethernet cards, modem cards, and ATA Flash cards
Speaker	*Internal:* programmable for volume, duration and pitch; *External:* speaker jack

SYSTEM (continued)

Keypad	69-key alphanumeric keypad; QWERTY layout; 10 dedicated function keys; Western-European character support
Display	Monochrome Super-twist graphics LCD; CCFL Backlight; 320 x 240 pixels; Color display (optional); Formats: 15 x 40, and 8 lines x 40 characters
Radio Support (Falcon 515)	Lucent WaveLAN 802.11, Proxim RangeLAN2, Aironet/Cisco, Symbol Spectrum24; Internal antenna
Software Tools	Windows-based configuration and installation program; Falcon Developer's Toolkit (includes Run-time libraries and technical reference manual); Application can be written using any x86-supported compiler (C, Basic, etc.); PowerNet Twin Client terminal emulation for VT100/220, IBM 3270/5250 and HP700/92; RF Software Development Kit
Options	Color LCD display; Adjustable desk mount; Mag stripe swipe reader; Bar code swipe reader; 16 user programmable I/O ports; 10/100 Network interface cards; Flash memory cards: 8,16 or 32 Mb; 56K internal modem; Choice of RF network cards

Specifications are subject to change without notice.
For further information, contact your PSC representative.

*For product information, technical support, answers to frequently asked questions, product documentation, software updates, repair information, and how to contact PSC, visit the PSC Website at: **www.pscnet.com***

PSC
EXPANDING TECHNOLOGY. FOCUSING SOLUTIONS.