# Decoders

Combined with data collection technology, bar codes provide a rapid, accurate and efficient means to collect, process, transmit, record and manage data in a variety of industries. Retail, package delivery, warehousing and distribution, manufacturing, health care and point-of-service applications all benefit from the use of bar codes. Fast, reliable data collection, reduced labor costs and improved management decision making are just a few examples of these benefits.

Bar code systems require three elements: a source of printed bar codes, a computer system with application software to process the bar code input and a reader system, consisting of an input device to scan the bar codes and – if the input device does not perform internal decoding – a decoder to convert the symbology to ASCII text. The Percon PowerWedge line of decoders excels in this application.

PowerWedges are often the least expensive and easiest decoding systems to implement. The wedges connect directly to the RS-232 port or the keyboard port. When connected to the keyboard port, they simulate keyboard input. The application program does not know the difference and the user can always type in the information if the bar code is damaged or otherwise unreadable. All PowerWedges can also operate without a keyboard.

In order to ensure the most cost-effective choice for your operation, Percon has designed a line of three PowerWedge decoders, each with unique capabilities. Together, they provide the options to meet all of your decoding needs, from basic to complex. All three combine the quality hallmarks which have made Percon the leader in the bar code data collection field for over fifteen years – ease of implementation, flexibility and rugged durability.

Application Software

Input Device

PowerWedge Decoder
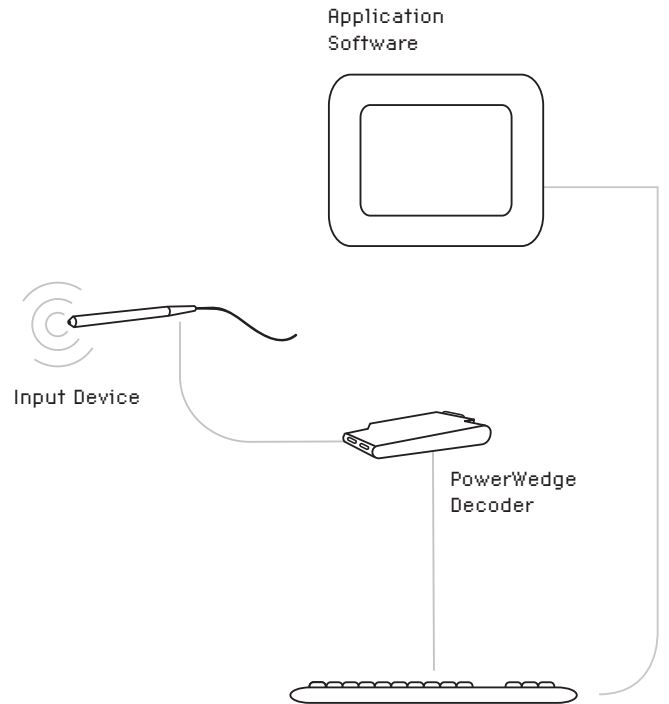
Features

- Small footprint, sleek design
- Normal/autoscan/multiscan/ blinking (Symbol) trigger modes
- Supports driver's license format
- Auto-discriminates and auto-learns most popular bar code symbologies
- Supports EAN/ISBN conversion
- Operates without keyboard

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PowerWedge 10

Designed for basic bar code needs, the PowerWedge 10 is available in either serial or keyboard wedge models. Keyboard interfaces include IBM® PC/AT/XT/, PS/2, Macintosh and select terminals.

The PowerWedge 10/20 are programmed using either a bar code menu, bar code batch label, serial batch label, or interactive on-screen menu. Its unique "cloning" feature enables you to program multiple units in seconds from a single "master" unit. An auto-learn feature automatically programs the type and length of each bar code as it is scanned, and extensive programmability allows you to auto-discriminate among 16 bar code symbologies and up to two magnetic stripe tracks interchangeably.

Most input devices – wands, 5V lasers, CCDs, ID badge scanners, and magnetic stripe readers – can be used with the PowerWedge 10/20 decoder. Input device and magnetic stripe connectors are conveniently located on the front of the decoder for quick and easy installation.

You'll find the PowerWedge 10/20 easy to install and simple to use, consistently providing you with reliable, cost-effective performance.

PowerWedge 20

For the most demanding applications, the PowerWedge 20 provides the versatility and reliability you need for fast and accurate bar code data collection. Its small, sleek design creates a minimal footprint, maximizing your workspace without compromising performance.

PowerWedge 20 decoders are available in two models: Universal and Universal Dual. The Universal decoder can be used as an RS-232C serial decoder or as a keyboard wedge for a variety of computers and terminals.

The Universal Dual decoder gives you all the features of the Universal model with the additional options of using two bar code input devices with or without a magnetic stripe reader.

Additional features of the PowerWedge 20 include:
- Host controlled indicators
- Universal decoder: keyboard and serial interfaces
- Supports over 300 terminal interfaces
- Auxiliary serial port

Five programming methods
- Bar code menu
- Bar code batch
- Serial batch
- On-screen
- Cloning

Input editing for data formatting and redirection

Mini PowerWedge

Designed to meet the tightest space requirements, the Mini PowerWedge is a compact, yet powerful decoder. As a keyboard wedge, it features a single 9-pin squeeze style connector and a 25-pin interface connector for a sleek set up that virtually goes unnoticed on your desktop. The Mini PowerWedge supports a variety of popular interfaces, including IBM PC/AT/XT, PS/2, Macintosh and many terminals.

Serial input devices including scales, lasers, and check readers are also supported by the Mini PowerWedge.

Users can quickly and easily program the Mini PowerWedge using their choice of a bar code batch label, a bar code menu, or an on-screen menu.

The Mini PowerWedge from Percon affords price-conscious customers a quality solution without compromising performance.

PowerWedge Specifications

Common Specifications: PowerWedge 10, 20 & Mini PowerWedge

Bar Code Symbologies
- Code 39
- Code 39 full ASCII
- Codabar
- Interleaved 2 of 5
- Standard 2 of 5
- Matrix 2 of 5
- UPC-A/E
- EAN-8/JAN-8
- EAN-13/JAN-13
- UPC/EAN/JAN extensions
- ISBN Conversion
- Code 11
- MSI/Plessey
- EAN 128
- Code 128
- Label Codes 4/5
- AMES

Programmable Options

Bar Code
- Select bar code type(s)
- Set minimum/maximum lengths for each bar code type
- Convert UPC-E bar codes to UPC-A format
- Convert UPC-A bar codes to EAN/JAN format
- Enable/disable checksum and check digits where valid
- Enable/disable UPC system digit, and check digit, and EAN/JAN country code
- Add user-defined preamble/postamble to each transmission
- Indicate bar code type

General Options
- Host Compatibility
- Select automatic terminator
- Add intercharacter delay check
- Add CCD/laser redundancy check
- Four trigger modes
- Adjustable good read beep pitch/volume/quantity
- Change upper case to lower case
- Enable/disable the programming mode
- Operates without keyboard

Environmental
- Operating temperature +32° to +122° F (0° to +50° C) 5% to 95% relative humidity (non-condensing)
- Complies with FCC Class A radio frequency emission requirements

PowerWedge 10 Specifications:

Interface Options
- RS-232C serial
- Keyboard wedge IBM® PC/XT/AT, PS/2, Macintosh, and other popular interfaces
  (Interface cables, input devices and power supplies must be ordered separately.)

Input Devices
- Input One: 9-pin squeeze-style connector
  - wand, 5-volt laser, CCD, ID Badge reader
- Input Two: 9-pin squeeze-style connector
  - Up to two tracks magnetic stripe support

Decoder Programming Methods
- Bar code menu
- Bar code label
- Serial batch file
- Cloning (requires special cable)

Magnetic Stripe
- Enable/disable each magnetic stripe channel (2)
- Add user-defined preamble/postamble to each magnetic stripe channel
- Indicate magnetic stripe type

Serial Communications
- Baud rate: 300 to 56.7K
- Adjustable bits, parity, stop
- XON/XOFF
- User defined SOR and EOR
- EOR or ACK/NAK Protocol

Indicators
- Green and red LEDs
- Internal beeper

Physical Dimensions
- Height: 1.0" (25 mm)
- Length: 5.12" (130 mm)
- Width: 4.0" (102 mm)
- Weight: 6.43 oz. (180 g)

Electrical
- External Voltage: 9V@500mA
- Host-supplied voltage: 5V±10%
- Input current(mA):100

PowerWedge 20 Specifications:

Interface Options
- RS-232C serial
- Keyboard wedge IBM® PC/XT/AT, PS/2, Macintosh, ADDs, IBM 31xx, Data General, Televideo, DEC, and many other terminal interfaces.
  (Interface cables, input devices and power supplies must be ordered separately.)

PowerWedge 20 Specifications continued:

Input Devices
Input One: 9-pin squeeze-style connector
- wand, 5-volt laser, CCD, ID Badge reader

Input Two: 9-pin squeeze-style connector
- Up to three tracks magnetic stripe support

Input Two:
With "Y" cable (Dual model only)
- wand and up to two track magnetic stripe reader support 5-volt laser and one track magnetic stripe reader support

Decoder Programming Methods
- Bar code menu
- Interactive on-screen menu
- Bar code label
- Serial batch file
- Cloning (requires special cable)

Magnetic Stripe
- Enable/disable each magnetic stripe channel (3)
- Enable/disable magnetic stripe format used by airline industry
- Add user-defined preamble/postamble to each magnetic stripe channel
- Indicate magnetic stripe type

Input Editing
- Enable/disable four data editors
- Define data qualifiers: bar code type(s), bar code length(s)
- Define data fields by length or delimiters
- Define fields (up to 16) of text and action keys to be added to data string
- Define output sequence of data fields and added data fields
- Define output redirection

Serial Communications
- Baud rate: 300 to 56.7K
- Adjustable bits, parity, stop
- XON/XOFF
- Auxiliary serial port
- User defined SOR and EOR
- EOR or ACK/NAK Protocol
- Host response required
- Host controlled indicators

Indicators
- Host Control
- Green and red LEDs
- Internal beeper

Physical Dimensions
- Height: 1.0" (25 mm)
- Length: 5.12" (130 mm)
- Width: 4.0" (102 mm)
- Weight: 6.43 oz. (180 g)

Electrical
- External Voltage: 9V@500mA
- Host-supplied voltage: 5V±10%
- Input current(mA): 115

Mini PowerWedge Specifications:

Interface Options
- Keyboard wedge IBM® PC/XT/AT, PS/2, Macintosh and other popular interfaces
(Interface cables and input devices must be ordered separately.)

Input Devices
Single Input:
9-pin squeeze-style connector
- Wand, 5-volt laser, CCD, ID Badge reader
- Up to two tracks magnetic stripe reader support
- Serial input support for lasers, scales, or check readers

Decoder Programming Methods
- Bar code menu
- Bar code label
- Interactive on-screen menu
- Cloning (requires special cable)

Magnetic Stripe
- Enable/disable each magnetic stripe channel (2)
- Add user-defined preamble/ postamble to each magnetic stripe channel
- Indicate magnetic stripe type

Indicators
- Green and red LEDs
- Internal beeper

Physical Dimensions
- Height: .75" (19 mm)
- Length: 2.75" (70 mm)
- Width: 3.25" (82 mm)
- Weight: 2.3 oz. (64 g)

Electrical
- Host-supplied voltage: 5V±10%
- Input current: 90mA

Warranty
All Percon PowerWedge decoders are backed by a five-year limited warranty against defects in materials and workmanship.

Doc. No. PW100399VUSENG

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