

# ET215 Ethernet Terminal



WALL-MOUNT



TABLETOP

## LOW-COST NETWORK DATA COLLECTION

### Overview

The *ET215* Ethernet Terminal is a low cost data collection device that communicates with a software application program over a TCP/IP network. The operator interface consists of an alphanumeric display and a membrane keypad (extra input options available).

### Theory of Operation

When the *ET215* connects to an ethernet network it functions similar to a "Telnet" terminal. The host software sends commands and displayable messages to the terminal via the network. User input from the keypad, optional bar-code, or mag-stripe reader is sent to the host software. To minimize network traffic, the user input is transferred as complete strings instead of character by character. Strings are terminated by the "Enter" key and terminated with the ASCII <CR> & <LF> characters. The bar-code and mag-stripe input includes the "autoEnter" function.

### Terminal Emulation

The *ET215* terminal has two (2) operation modes: the "Virtual Terminal Command (VTC) mode and the ANSI terminal mode. The VTC mode provides a unique but simple protocol that eliminates the need to know all the particulars of the lower level ANSI protocol. The ANSI emulation mode is a subset of the standard ANSI

terminal protocol that supports most of the standard display manipulation command set. The *ET215* includes the *DCNET* application program (Win9x/NT based) which adds out-of-the-box ethernet data collection capability.

### Network Interface

The *ET215* terminal connects to an Ethernet LAN via a standard 10/100BaseT cable. From a network perspective it occupies a single "socket" at a specified TCP/IP address and port number. The host software communicates with the *ET215* by establishing a connection with the terminal and then sending and receiving ASCII text command strings. In addition to the primary TCP/IP port the *ET215* supports a standard Telnet port for remote configuration.

### Operator Interface

The *ET215* includes an LCD display and a numeric keypad as the primary operator interface console. In addition, the *ET215* terminal may include an optional bar-code scanner input, mag-stripe card reader input, or RFID reader input and an aux RS-232 port for connection of a serial input device. Optional digital inputs with counters (up to 4) and software controlled relay outputs (up to 4) provide machine control for an external device.



# ET215 Features

## Display

The ET215 display utilizes a two (2) line by twenty four (24) column LCD character display which displays the 96 standard ASCII characters and 96 non-standard symbols in a 5 x 7 dot matrix font. Cursor position is identified by a blinking box and can be positioned under software control. Backlighting is available as an option for low light installations.

## Input / Output Options

The ET215 terminal is a member of the ET200 family of low-cost data collection computer terminals. It features small size, low power, Ethernet connectivity, and is ideally suited for industrial data collection applications. Several input/output options are available as follows:

### Barcode Input

The barcode decoder input option allows one or two bar-code devices to be attached on the ET215 terminal. Decoded input is treated just like keyboard entered data and can be configured to include an automatic Enter (<CR>) code. The ET215 will automatically discriminate and decode Code 39, Code 128, Interleave 2/5, Codabar, and UPC/EAN symbologies. Available input devices include wands, slot readers, and wand emulating CCD or laser scanners. The Wall Mount version of the ET215 can be supplied with an integral slot reader as one of the bar-code input devices.

### Mag-stripe Input

The mag-stripe decoder input option allows either a single or dual track magnetic card reader to be attached. Either single Track #1 or Track #2 reader can be decoded and the input is treated just like keyboard entered data. If a dual track reader is installed Track #1 will be decoded first and if it fails Track #2 will be decoded.

### Relay Output

The ET215 can be supplied with either two (dual) or four (quad) output relays that can be individually activated under software control. Each relay has a single "form A" contact rated at 10va (100vdc, 100ma.) maximum. Access to the contacts is via screw terminal blocks on the back of the unit.

### Power Supply

The ET215 is powered by a 12vdc (6va rating) power adapter that plugs directly into a 120vac receptacle. Typical power consumption is less than 10 watts. Optional input devices (laser scanners, card readers,

etc.) can increase the power consumption slightly. Alternate power supplies can be used by connecting them via the ET215 power jack.

## Standard Features

- 10/100BaseT Ethernet Connectivity (TCP/IP).
- Bar code input interface for wand, laser, CCD or other compatible scanner.
- Standard RS-232 COM port, 9-pin AT connector.

## Add-on Options

- 8 line x 40 column LC Display (see ET214 model)
- Display Backlight
- Wall Mount Enclosure (no slot reader)
- Wall mount enclosure with integral barcode slot reader (VL)
- Magnetic stripe card reader interface (Trk 2, Trk 1 optional)
- RFID Reader
- Touch-key Reader
- Contact inputs (4) with built-in counters
- Relay control outputs (2 or 4)
- Panel Mounting Bezel
- NEMA Rated Industrial Enclosure

## Physical Specifications

Dimensions (*width x height x depth*)(mm)

Table-top Model: 175mm x 112mm x 170mm  
Wall-mount Model: 220mm x 225mm x 92mm  
NEMA Rated Model: 225mm x 292mm x 12mm

Weights

Table-top Model: 1.14 Kg. (2.5 Lbs)  
Wall-mount Model: 1.82 Kg. (4 Lbs)  
NEMA Rated Model: 4.02 Kg. (8.8 Lbs)

Power Consumption (*does not include options such as backlight, modem, or bar code scanner, badge reader, etc.*)

Standard Unit: 10 Watts  
With Backlight Display: +35milliamps.

Operating Environment

Temperature: 0C to 60C (32F to 120F)  
Humidity: 5% to 95% non-condensing

Storage Environment

Temperature: 30C to 70C (-4F to 158F)  
Humidity: 5% to 95%

**COMPUTERWISE.**

302 N. Winchester, Olathe, KS 66062  
Tel: 913-829-0600 Fax: 913-829-0810  
E-mail: [sales@computerwise.com](mailto:sales@computerwise.com)  
Web: [www.computerwise.com](http://www.computerwise.com)