

## VFD-450 Series

# VFD Customer Display

- Superior Image & Display Quality
- Available for Pass-Through Connections
- Optional Back LCD Display, Low-cost Double-Sides Display
- Optional Pole/Base for Various Application



Front VFD



Optional Back LCD



**DSP-B02**  
Optional Metal Base



**DSP-B03**  
Optional Short Pole Base

The VFD Series are powerful Vacuum Fluorescent Displays which provide a wide viewing angle, long life, high reliability and high display quality. They are designed to improve image and service with an enhanced customer display, featuring modular PC-based POS applications.

The VFD displays are for use with ECR/POS system, to display the purchased price and the amount of change to customer. They are also capable to display the message of advertising or some devices that are connected with computer system.

Optional back LCD display for operator, to be a low-cost double sides display.

### **Features:**

- Vacuum Fluorescent Display with display 20 columns x 2 lines.
- Blue-green fluorescent color is easy for the eyes.
- The display panel is adjustable for the best viewing angle.
- Adjustable height from 380mm to 550mm.
- The interface is RS-232C, with baud rates from 300 up to 9600 bps.
- Pass through function to reduce cable connections.
- Optional back LCD display.
- The user-defined and international character sets are built-in.

# Specifications:

## Tube Display

### Front VFD Display

Customer display	Vacuum Fluorescent Display
Display pattern	5 x 7 dot matrix
Brightness	700 cd/m <sup>2</sup>
Character type	95 Alphanumeric & 32 international
Character size	6.4mm (W) x 9.2mm(H)
Character number	20 x 2

### Back LCD Display (Optional)

Customer display	Liquid Crystal Display
LCD Mode	STN Negative, Blue
Display pattern	5 x 7 dot + Cursor
Number of characters	20 characters x 2 lines
Character Size	3.2 mm (W) x 5.5 mm (H)
Back light Type	LED, Amber
Viewing Area	85.0 mm x 18.6 mm

## Environment

Operating temperature	0°C to +40°C
Storage temperature	-10°C to +50°C
Relative humidity	0% to 90% RH

## Driver Interface

Driver interface	RS-232
Driver command	ESC commands

## Overall Dimensions

Dimension (panel)	110mm H x 220 mm L x 45 mm D
Dimension (support)	Telescopic pole from 270 to 440 mm
Dimension (base)	12 mm Height with 80mm OD
Viewing angle	Max. 45°
Horizontal rotation	Max. 360°
Weight	About 0.8 Kg

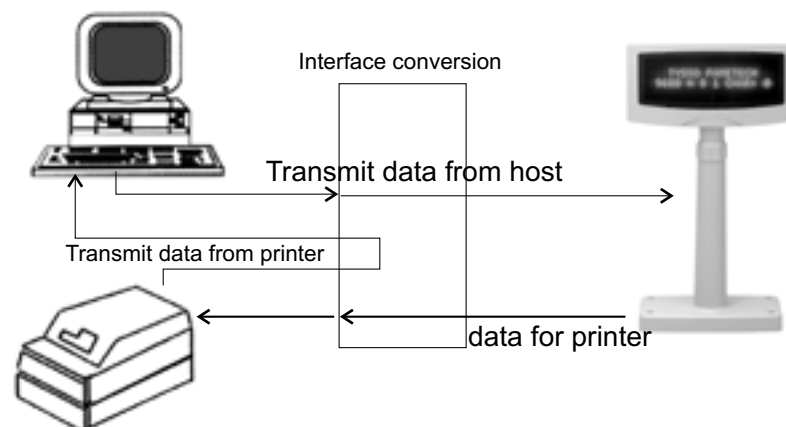
## Electricity

Power source	DC +9V~10V(Optional +5V, +24V)	
Power consumption	15 watts maximum 3 watts average	
Central control unit	CPU ROM RAM	8031 BH 32K flash ROM 32K SRAM
Speed	CPU	11.0592 MHz
Connector	8 pins phone jack, D-SUB 9, and 25 pins (female) connector	

## Models:

VFD-450	VFD display, 20 characters x 2 lines
VFD-455	VFD-450 with Back LCD Display

## Pass-through Connection:



ISO-9002 Certified



Manufacturer

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