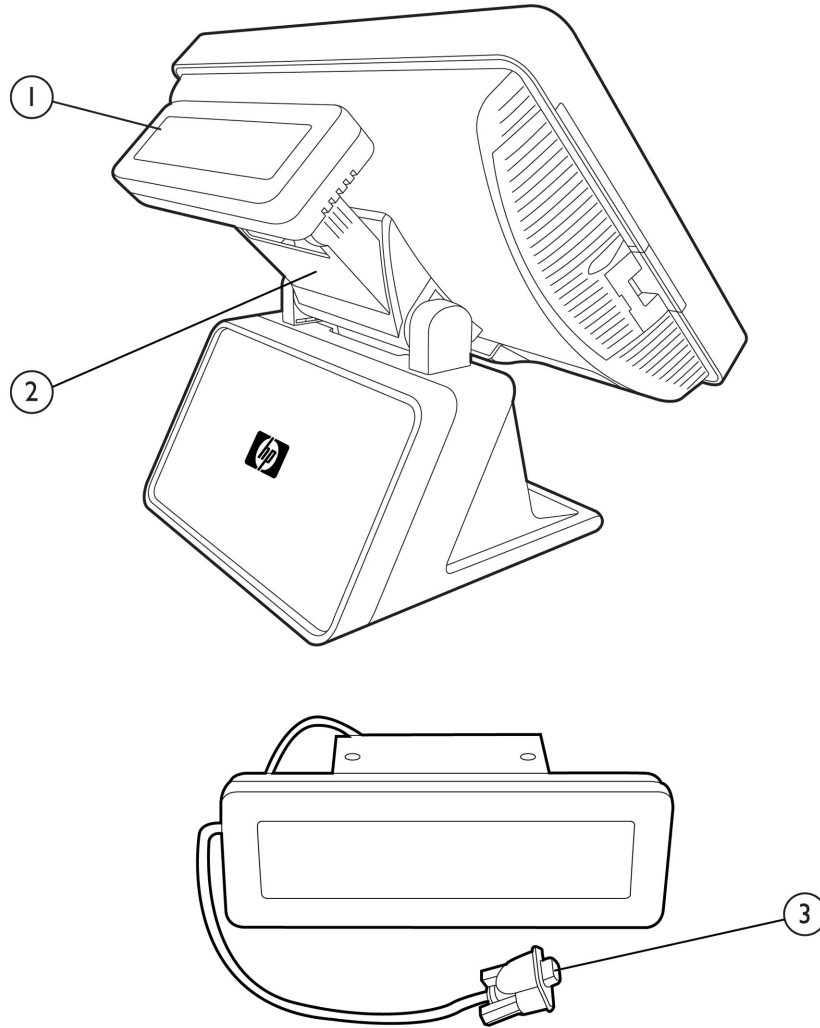


Overview



1. 2- line by 20 characters, Customer Facing Vacuum Florescent Display (VFD) (can only be used with HP ap5000 All-in-One POS System)
2. Mounting brackets (included)
3. Serial cable attaches to COM port

Introduction

This optional 2 line Customer Facing Display Kit for the HP ap5000 All-in-One Point of Sale System includes a mounting bracket and cable to integrate with the HP ap5000.

Overview

Key Features

- a. 2 line x20 character display (40 characters total), RS-232 interface, 5 Volts(V)
- b. Supports complex character set, control commands, user-defined fonts and international fonts.
- c. Display pitch adjustment 80 degrees (10 degrees to 90 degrees)

NOTE 1: VFD must be connected to the COM 1 or COM 2 port (It should not be connected to COM3 port since COM 3 does not support DC5V. Connecting the VFD into COM 3 port may damage the VFD COM 1 may be used for the VFD but 5V will need to be selected in BIOS Setup for COM 1.

NOTE 2: The VFD occupies COM 2 port from the HP factory. Although three COM ports are present on the HP ap5000, COM 2 port is occupied by the VFD when attached by the HP factory,; therefore, only two COM ports are available to the end user when the VFD is installed.



Technical Specifications

Specifications	Power supply:	DC 5V
	Interface:	Serial Interface (RS-232, bi-directional, asynchronous)
	Functions:	<ul style="list-style-type: none">• Character display• Control commands• FROM User Fonts, FROM User Table• International fonts
	Built-in Fonts:	1-byte character: International font
		2-byte character: Japanese Korean Simplified Chinese Traditional Chinese
	Optical Specifications:	Luminance: Minimum 350 cd/m ² , typically 1000 cd/m ²
		Color of illumination: Green (Blue Green)
	Number of characters:	40 (20- characters x 2 lines)
	Character format:	15 x 16 dot matrix
	Display area: (W x H)	6.26 x 0.929 in (159.0 x 23.59 mm)
	Character size: (W x H)	0.257 x 0.414 in (6.53 x 10.52 mm)
	Character pitch: (W x H)	0.316 x 0.515 in (8.03 x 13.07 mm)
	Dot size: (W x H)	0.0118 x 0.0205 in (0.30 x 0.52 mm)
	Dot pitch: (W x H)	0.0177 x 0.0264 in (0.45 x 0.67 mm)
	Display pitch adjustment:	80 degrees (10 degrees to 90 degrees)
	Dimension (VFD only)	
	Weight (VFD only)	

Interface Specification	Communication type:	Asynchronous serial
	Signal level:	RS-232 standard
	Baud rate:	9600,19200,38400,115200 bps
	Bit format:	Start(1bit) + Data(8bit) + Stop(1bit / 2bit)
	Handshaking:	DTR, DSR
	Buffer capacity:	Receive buffer: 128 bytes
		Transmit buffer: 64 bytes

Environmental Specifications	Operating temperature:	-40 to +185 °F (-40 to +85 °C)
	Storage temperature:	-40 to +185 °F (-40 to +85 °C)
	Operating humidity:	20 to 80% R.H (non-condensing)
	Storage humidity:	20 to 80% R.H (non-condensing)

Service and Support	Your HP Peripheral Limited Warranty is a three (3) year (HP Option Limited Warranty Period) parts replacement warranty.
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Technical Specifications

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