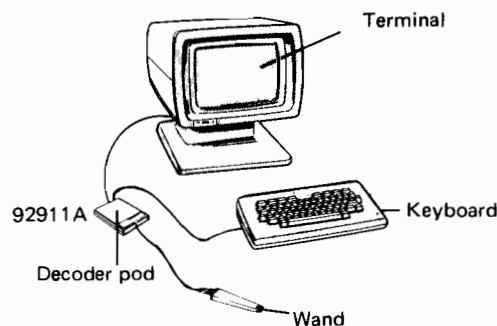
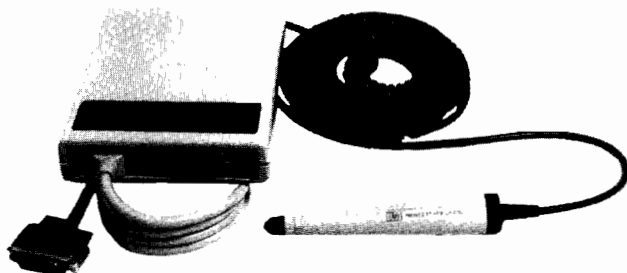


Bar Code Reader



Model 92911A



Introduction

The 92911A is a Bar Code Reader accessory for HP 262X CRT terminals. It is designed to provide efficient bar code data entry, which greatly reduces the time and errors associated with a keyboard.

The 92911A upgrades an existing data entry system without requiring any hardware or software modification.

Features

- **Compatible terminals:** HP 2622A, 2623A, 2624B, 2626A, 2626W, 2627A, 45500A (HP 125A)
- Compact, easily installed
- No modifications to host terminal/system
- Powered from the terminal
- Built-in power-on self-test
- Choice of wands
- Popular industrial codes:
 - Interleaved 2 out of 5 code (USD-1)
 - 3 of 9 code (USD-3)
 - Or optionally Codabar (USD-4 and ABC)
- Bidirectional scanning
- Check digit
- Field length check
- Optional terminator character
- Audible feedback for correct reading
- Reads labels containing up to 31 characters

Applications

The HP 92911A provides HP 262X terminal users with an alternative to the keyboard for many data entry applica-

tions. It speeds up data entry, with greatly improved accuracy, in clerical applications where video terminals are commonly found, for example:

- order entry
- document tracking
- sample identification
- employee/job identification
- material flow
- warehousing applications
- production tracking and control
- software distribution
- item tracking

Product description

The 92911A consists of a bar code wand that is attached to a decoder pod by a coiled cable. The decoder pod is connected in series with the terminal's keyboard cable, and is powered through it. The 92911A is ready to use whenever the terminal is powered-on.

When a correct read has been completed, the terminal beeper sounds, and the data is displayed on the CRT in the same way as keyboard originated data. When all the characters have been displayed, the terminal beeper sounds a second time.

A set of 10 switches, accessible to the user, enables the selection of the code and verification of check digit and field length check (the reader transmits the data only if the number of characters read corresponds to the selected length). A Carriage Return character (octal 015) may be sent at the end of the data string for character mode applications.

Wand characteristics

The HP 92911A can be fitted with one of four different bar code wands. The choice of wand depends on the application, the density of the code, and the type of environment.

The standard configuration comprises a medium resolution wand (12 mils) recommended for general purpose use, and for use with bar codes generated on good quality dot matrix printers (e.g. HP 2631G option 200).

Option 053 features a high resolution wand (6 mils), for use with high density bar codes (pre-printed labels, specialized serial impact printers, etc.).

Option 054 and 055 features low and high resolution Industrial wands respectively for use in harsh environments.

	Units	Gen. purpose wands		Industrial wands	
		Std	Opt. 053	Opt. 054	Opt. 055
Minimum resolution	mm in	0.30 0.012	0.15 0.006	0.38 0.015	0.19 0.0075
Depth of field	mm in	0.25 0.010	1 0.040	1 0.040	1 0.040
Tilt angle	maxi. pref.	30° 15°	30° 15°	45° 15°	45° 15°
Scan speed	cm/s in/s	8 to 80 3 to 30	8 to 80 3 to 30	6 to 100 2 to 40	6 to 51 2 to 20
Wand diameter	mm in	23 0.9	23 0.9	13 0.5	13 0.5
Wand length	mm in	133 5.2	133 5.2	148 5.8	148 5.8
Cable length (fully extended)	m ft	2.5 8	2.5 8	1.8 6	1.8 6
Light wavelength	nm	700	820	660	700
Min. bar/space print contrast	%	70	70	70	70
Environmental conditions (IEC standard)		IP 30	IP 30	IP 64	IP 64

Codes

The standard 92911A can decode the following codes (maximum of 31 data characters):

- Interleaved 2 out of 5 code, also known as Material Handling Institute standard USD-1 (Uniform Symbol Description), a numeric only code.
- 3 of 9 code, or CODE 39™*, also known as Material Handling Institute standard USD-3, an alphanumeric code.

Option 060 can decode two versions of Codabar; namely the Material Handling Institute standard USD-4, and the ABC (American Blood Commission) standard.

*Note: CODE 39 is a registered trade mark of INTERMEC.

Environmental

Temperature free space ambient:

- Operating: 0°C to 40°C (32°F to 104°F)
- Non operating: -40°C to 75°C (-40°F to 167°F)

Relative humidity (non condensing): 5% to 95%

Altitude:

- Operating: 4 500 m (14 400 ft)
- Non-operating: 15 000 m (48 000 ft)

Vibration: 0.38 mm p-p, 5-55 Hz, 3 axis for 15 minutes

Shock:

- Decoder pod: 30 G for 11 ms

Bench handling: 100 cm drop (39 in) on every side (decoder pod)

Transportation handling: 200 cm drop (79 in) in packaging on every side

Physical

Decoder pod dimensions: 30 mm H x 120 mm W x 160 mm L (1.18 in H x 4.72 in W x 6.29 in L)

Net weight: 0.5 kg (1.1 lb)

Shipping weight: 1 kg (2.2 lbs)



Approvals

Safety approvals:

- UL 114, UL 478 for office and EDP equipment
- CSA C22.2-154 for EDP equipment
- Compliance to IEC 380

RFI (radio frequency interference)

- Complies with FCC and VDE regulations

Documentation references

Operating and Service Manual P/N 92911-90001
Element of a Bar Code System P/N 5953-7732

Ordering information

Product	Description
92911A	Bar code reader with general purpose wand (12 mils), and Interleaved 2 out of 5 and 3 of 9 decoding
Option 053	Replaces medium resolution by high resolution general purpose wand (6 mils)
Option 054	Replaces general purpose by industrial low resolution wand (15 mils)
Option 055	Replaces general purpose by industrial high resolution wand (7,5 mils)
Option 060	Replaces Interleaved 2 out of 5 and 3 of 9 decoding by Codabar (USD-4 and ABC)

Accessories available

Part Number	Description
0950-1662	High resolution industrial wand (7,5 mils)
0950-1663	Low resolution industrial wand (15 mils)
1535-4474	Replacement tip for opt. 054/055
5061-3855	Gen. purp. medium resolution wand (12 mils)
5061-3856	Gen. purp. high resolution wand (6 mils)
5040-9906	Replacement tip for gen. purp. wands
03075-40006	Wand holder for standard and opt. 053
03075-40010	Wand holder for opt. 054/055

Data subject to change.



* 5953 - 0197 *



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