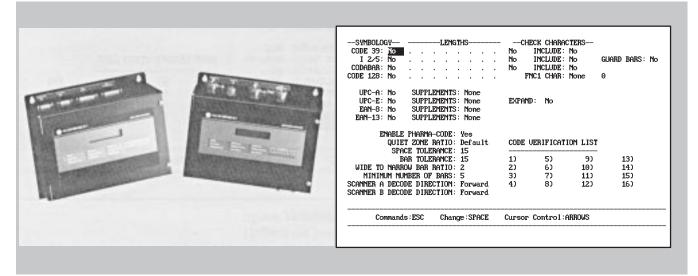
ALLEN-BRADLEY



Bulletin 2755 Single and Dual-Head Bar Code Decoders with Pharma-Code Option (Catalog No. 2755-DS1P, -DS4P, -DD1P, -DD4P)

Product Data



Overview. The Single and Dual-Head family of bar code decoders now support the Pharma-Code symbology as an option increasing their decoding capabilities in pharmaceutical product verification applications. The Pharma-Code enhancement is available by ordering Catalog No. 2755-DS1P, -DS4P, -DD1P, or -DD4P. The P in each catalog number denotes the additional capability to decode Pharma-Code symbols.

This document describes the Pharma-Code enhancement only. For more details on other features and functions of the Single and Dual-Head family of bar code decoders, see publication 2755-2.43.

Pharma-Code Configuration Screen

The decoder validates each Pharma-Code symbol against a predefined set of configuration parameters which are user adjustable. The parameters for Pharma-Code are shown below with the factory default settings.

SYMBOLOGY CODE 39: No . I 2/5: No . CODABAR: No . CODE 128: No .	L 	ENGTHS	•	(No No No	IN IN IN	CHARA CLUDE: CLUDE: CLUDE: CLUDE: CHAR:	No No	guard 0	BARS :	No
UPC-E: No Ean-8: No	SUPPLEME SUPPLEME SUPPLEME SUPPLEME	NTS: No NTS: No	ne ne	EXP	and :	No				
•	Harma-Co Zone Rat Toleran	IO: Def		CODI	e ver	IFICAT	ION LIST			
••••••	TOLERAN			1)		5)	9)	:	13)	
WIDE TO NARROW	BAR RAT	IO: 2		2)		6)	10)		14)	
MINIMUM NUMB	er of Ba	RS: 5		3)		7)	11)		15)	
Scanner a decode Scanner b decode				4)		8)	12)	:	16)	
Commands:		hange:S	 PACF	 Cure		ntrol:	ARROLIS			

Pharma-Code Configuration Parameters

This section gives a brief overview of the Pharma-Code configuration parameters and their settings.

Enable Pharma-Code Symbology

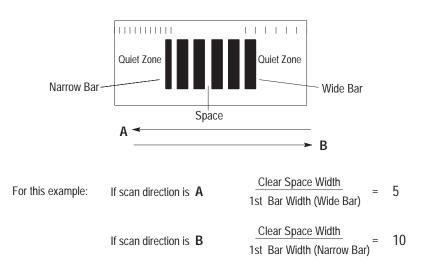
Enables or disables decoding of Pharma-Code symbols.

Other symbologies supported by the single and dual-head decoders are enabled individually.

The parameters used to compensate for variations in your applications appear on the following pages.

Quiet Zone Ratio

Specifies the ratio of the width of the clear space before the first bar to the width of the first bar, or the width of the clear space after the last bar to the width of the last bar; whichever is smaller. Valid quiet zone ratio values range from 1 to 10.



Space Tolerance

Defines the percent difference (in width) between the narrowest and widest space elements of the symbol. Valid values range from 5 to 40.

Bar Tolerance

Defines the percent difference (in width) between 2 bars of a symbol that have the same nominal width but the largest width difference. Valid values range from 5 to 40.

Wide to Narrow Bar Ratio

Specifies the minimum ratio of the widest bar to the narrowest bar within a symbol. Valid settings range from 2 to 4.

Minimum Number of Bars

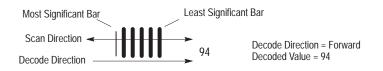
Specifies the least number of bars that must be present in a symbol for the decoder to perform a decode. Valid values range from 3 to 12.

Decode Direction (Scanner A or B)

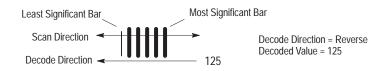
Sets the direction the decoder uses to decode a scanned label. Direction values are either Forward or Reverse.

The decoder assigns numerical weights to the bars of a symbol using the width of the bar (narrow or wide) and its position in the symbol. The decoder uses the decode direction to determine the least significant bar of a symbol. The examples on the next page show how a Pharma-Code label is decoded depending on the direction.

Example 1: The decode direction is set to forward. The decode direction fixes the position of the least significant bar (regardless of scan direction). The decoded value is 94.



Example 2: The decode direction is set to reverse. The decode direction fixes the position of the least significant bar. The decoded value is 125.



Code Verification List

Defines a list of numeric values used to validate decoded symbols.

Match String Symbology	Pharma-Code is an option in the list of symbologies that can be assigned to a string in the match code table. The option appears in the list as PHARMA.
Host Commands	The decoders support new ASCII commands and PCCC addresses to enable and configure Pharma-Code symbology parameters from a host.