

MSI / Plessey Bar Code QwikTip™

MSI/Plessey bar code is a variable-length numeric-only code with an automatically appended Modulus 10 check digit. If the user specifies an additional check digit, the code can be 14 digits long; otherwise it has a maximum length of 13 characters.

- The location of the start character is Decimal 40/Hex28 or “(“
- The location of the stop character is Decimal 41/Hex29 or “)”

This is how the check digit(s) are calculated:

The Mod 10 check digit is calculated by using the following steps:

1. The example bar code data is:

987654

2. Starting from the units position, form a new number with all the odd position digits in their original sequence.

8 6 4

3. Multiply the new number by 2.

$864 \times 2 = 1728$

4. Add all of the digits of the product from step 3

$1 + 7 + 2 + 8 = 18$

5. Add all of the digits not used in step 1 to the result of step 4.

$9 + 7 + 5 + 18 = 39$

6. Subtract the result of step 5 from the next highest multiple of 10. This is the check digit.

$40 - 39 = 1$

7. New Check Digit.

1

8. Data to be printed.

(9876541)