

## GS ( k <Function 181>

[Models] TM-J2000 TM-J2100 TM-L90 TM-P20 TM-P60 TM-P60II TM-P80 TM-T20 TM-T20II TM-T70  
TM-T70II TM-T82II TM-T88IV TM-T88V TM-T90 TM-U220 TM-U230

[Name] QR Code: Print the symbol data in the symbol storage area

[Format] ASCII GS ( k **pL pH cn fn m**  
Hex 1D 28 6B 03 00 31 51 **m**  
Decimal 29 40 107 3 0 49 81 **m**

[Range] (**pL** + **pH** × 256) = 3  
**cn** = 49  
**fn** = 81  
**m** = 48

[Description] Encodes and prints the QR Code symbol data in the symbol storage area using the process of <Function 180>.

- [Notes]
- In Standard mode, use this function when the printer is "at the beginning of a line," or "there is no data in the print buffer."
  - The symbol size that exceeds the print area cannot be printed.
  - If there is any error described below in the data of the symbol storage area, it cannot be printed.
    - There is no data (Function 180 is not processed).
    - If the data of the symbol storage area is more than the data allowed by specified model and data compaction mode. (This case is an abnormal number of data.)
  - The four data compaction modes are listed below (in order of compaction rate). Automatically selects best compaction mode by the data of the symbol storage area.
    - Numerical mode
    - Alphanumeric mode
    - Kanji mode
    - 8-Bit Byte Mode
  - The following data are added automatically by the encode processing.
    - Position Detection Patterns
    - Separators for Position Detection Patterns
    - Timing Patterns
    - Format Information
    - Version Information
    - Error Correction codewords (employs the Reed-Solomon Error Detection and Correction algorithm)
    - Pad codeword
    - Number of bits in Character Count Indicator
    - Mode Indicator
    - Terminator
    - Alignment Patterns (when model 2 is selected)
    - Extension Patterns (when model 1 is selected)
  - Printing of symbol is not affected by print mode (emphasized, double-strike, underline, white/ black reverse printing, or 90° clockwise-rotated), except for character size and upside-down print mode.
  - In Standard mode, this command executes paper feeding for the amount needed for printing the symbol, regardless of the paper feed amount set by the paper feed setting command. After the symbol printing, the print position is moved to left side of the printable area. Also, the printer is in the status "beginning of the line".
  - In Page mode, the printer stores the symbol data in the print buffer without executing actual printing. The printer moves print position to the next dot of the last data of the symbol.
  - The quiet zone is not included in the printing data. Be sure to include the quiet zone when using this function.
  - The symbol is printed with appropriate printing speed regardless of the printer's maximum printing speed or the setting of GS ( K <Function 48>.

### TM-L90, TM-T90II:

In Standard mode, the symbol which height exceeds 738 dots cannot be printed with this printer.

### TM-P20, TM-P80, TM-T20, TM-T20II, TM-T70, TM-T70II, TM-T82II, TM-T88IV, TM-T88V:

In Standard mode, the symbol which height exceeds 831 dots cannot be printed with this printer.

### TM-P60:

Only the Peeler model supports this command.

In Standard mode, a symbol higher than 1200 dots cannot be printed with this printer.

### TM-P60II:

In Standard mode, a symbol higher than 1624 dots cannot be printed with this printer.