



Providing Information of Data regarding “Connected Product”

FANUC CORPORATION provides the following information regarding product data for the products shown in the attached list.

Please refer to the file below (hereinafter referred to as the data list) for information on each piece of data.

「Materials for Providing Information_Annex_CNC,Power Motion」

1. Type, format and estimated volume of product data

- Type: Please refer to the data list.
- Format: Please refer to the data list.
- Estimated volume: Please refer to the data list.

2. Frequency of product data generation

The frequency of generation varies depending on the data. Please refer to the data list.

3. Product data storage location

The storage location varies depending on the data. Please refer to the data list.

4. Methods for accessing, obtaining, or deleting product data

The access method differs for each data. Please refer to the data list.



List of connected products for which information is provided.

FANUC Series 30i-MODEL B
FANUC Series 30i-MODEL B Plus
FANUC Series 31i-MODEL B
FANUC Series 31i-MODEL B Plus
FANUC Series 31i-MODEL B5
FANUC Series 31i-MODEL B5 Plus
FANUC Series 32i-MODEL B
FANUC Series 32i-MODEL B Plus
FANUC Series 35i-MODEL B

FANUC Series 30i-LB
FANUC Series 30i-LB Plus
FANUC Series 30i-PB
FANUC Series 31i-LB
FANUC Series 31i-LB Plus
FANUC Series 31i-PB
FANUC Series 31i-PB Plus
FANUC Series 31i-WB

FANUC Series 0i-MF
FANUC Series 0i-MF Plus
FANUC Series 0i-TF
FANUC Series 0i-TF Plus
FANUC Series 0i-PF
FANUC Series 0i-PF Plus
FANUC Series 0i-LF Plus

FANUC Series 0i-T MODEL D
FANUC Series 0i-M MODEL D
FANUC Series 0i Mate-M MODEL D
FANUC Series 0i Mate-T MODEL D
FANUC Series 0i-P MODEL D

FANUC

FANUC Series 501i-A

FANUC Series 501iS-A

FANUC Series 502i-A

FANUC Series 502iS-A

FANUC Series 503i-A

FANUC Power Motion i-A Plus

FANUC Power Motion i-MODEL A

iHMI

iHMI2

END

| Connected Product Name | (1)Product data | | | | (2)Frequency of product data generation (whether data can be generated continuously and in real time) | (3)Whether data is stored on your device or on a remote server | (4)Methods for accessing, obtaining, or deleting product data | |
|--|-----------------------------------|--|------------------|--|---|--|---|--|
| | Type | Data name | Format | Estimated volume | | | | |
| FANUC Series 30i-MODEL B FANUC Series 30i-MODEL B Plus FANUC Series 31i-MODEL B FANUC Series 31i-MODEL B Plus FANUC Series 31i-MODEL B5 FANUC Series 31i-MODEL B5 Plus FANUC Series 32i-MODEL B FANUC Series 32i-MODEL B Plus FANUC Series 35i-MODEL B | CNC composition | Software, Hardware series/edition number | text file | 1.2 Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | |
| FANUC Series 30i-LB FANUC Series 30i-LB Plus FANUC Series 30i-PB FANUC Series 31i-LB FANUC Series 31i-LB Plus FANUC Series 31i-PB FANUC Series 31i-PB Plus FANUC Series 31i-WB | CNC status | Actual power consumption | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (power consumption monitor screen) | |
| | | Executing program name*2 | string | 32 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen | |
| | | Operating status*2 | string | 10 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen | |
| | | Main program name*2 | string | 32 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen | |
| | | Total power-on time | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (setting screen) | |
| | | Fan speed of CNC | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1002, 1003, 1490, 1491 | |
| | | Fan status of CNC | number | 2 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1495, 1496 | |
| | | Absolute coordinates of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Actual power consumption of the axis | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (power consumption monitor screen) | |
| | | Axis load | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (operating monitor screen) | |
| FANUC Series 0i-MF FANUC Series 0i-MF Plus FANUC Series 0i-TF FANUC Series 0i-TF Plus FANUC Series 0i-PF FANUC Series 0i-PF Plus FANUC Series 0i-LF Plus | CNC axis status | Insulation resistance value of the axis | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1701(axis) , 1703(main axis) | |
| | | Deterioration status of insulation resistance of the axis | number | 1 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1700(axis) , 1701(main axis) | |
| | | Machine coordinates of the axis | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Relative coordinates of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Rotational speed of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Axis motor temperature | number | 1 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 308(axis) , 403(main axis) | |
| | | B code*1 | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | F code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | G code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | H code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| FANUC Power Motion i-A Plus FANUC Power Motion i-MODEL A FANUC Digital Servo Adapter- MODEL B All products equipped with CNC | CNC path status *2 | M code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | Running program name of the path | string | 32 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | Actual rotation speed of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | S code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | T code | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | Cutting time of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (setting screen) | |
| | | Actual feedrate of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Machine lock signal of the path | number | 1 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (position screen) | |
| | | Program running time of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (setting screen) | |
| | | Number of machined parts of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (setting screen) | |
| | | Main program name of the path | string | 32 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen | |
| | | Sequence number of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (program check screen) | |
| | | Total number of machined parts of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (setting screen) | |
| | | Alarm message | string | 64 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (alarm screen) | |
| | | Alarm numbe | number | 2 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (alarm screen) | |
| | | Alarm type | string | 2 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (alarm screen) | |
| | | Operator message *2 | Operator message | string | 128 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (message screen) |
| | | Message number | number | 2 byte | Dynamic information, always up-to-date | Not possible | ·Check on the CNC screen (message screen) | |
| | | Program*2 | Program | text file | ~32Mbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) |
| | | | Tool offset*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) |
| Setting | Workpiece origin offset amount*2 | text file | ~10Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Pitch error compensation*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | 3D error compensation*1,*2 | text file | ~1Mbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Custom macro variables*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Tool life management*1,*2 | text file | ~10Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Tool management*1,*2 | text file | ~1Mbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Tool geometry and dimensions*1,*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Parameters | text file | ~1Mbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| History | Operation history | text file | ~300 K byte | Dynamic information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Alarm history | text file | ~300 K byte | Dynamic information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| | Operator message history*2 | text file | ~300 K byte | Dynamic information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| Maintenance | Regular maintenance | text file | ~1 Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |
| PMC | PMC signal | number | ~256 kbyte | Dynamic information, always up-to-date | Not Possible | ·Check on the CNC screen (Signal status screen) | | |
| CNC identification number | CNC identification number | text file | 1Kbyte | Static information, always up-to-date | Possible | ·Output on the CNC screen (ALL I/O screen) | | |

*1:FANUC Power Motion i-A Plus and*2:FANUC Power Motion i-MODEL A are not supported.

*2:FANUC Digital Servo Adapter-MODEL B are not supported.

| Connected Product Name | (1)Product data | | | | (2)Frequency of product data generation (whether data can be generated continuously and in real time) | (3)Whether data is stored on your device or on a remote server | (4)Methods for accessing, obtaining, or deleting product data | |
|---|---------------------------|---|--|------------------|---|--|---|---|
| | Type | Data name | Format | Estimated volume | | | | |
| FANUC Series 501i-A FANUC Series 501iS-A FANUC Series 502i-A FANUC Series 502iS-A FANUC Series 503i-A | CNC composition | Software, Hardware series/edition number | text file | 1.2 Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | CNC status | Executing program name*2 | string | 32 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Operating status*2 | string | 10 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen | |
| | | Main program name*2 | string | 32 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Total power-on time | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Fan speed of CNC | number | 16 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (diagnosis screen) •Diagnosis number : 1002, 1003, 1490, 1491 | |
| | CNC axis status | Fan status of CNC | number | 2 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (diagnosis screen) •Diagnosis number : 1495, 1496 | |
| | | Absolute coordinates of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Actual power consumption of the axis | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (power consumption monitor screen) | |
| | | Axis load | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Insulation resistance value of the axis | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (diagnosis screen) •Diagnosis number : 1701(axis) , 1703(main axis) | |
| | | Deterioration status of insulation resistance of the axis | number | 1 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (diagnosis screen) •Diagnosis number : 1700(axis) , 1701(main axis) | |
| | | Machine coordinates of the axis | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Relative coordinates of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | CNC path status *2 | Rotational speed of the axis*2 | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) | |
| | | Axis motor temperature | number | 1 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (diagnosis screen) •Diagnosis number : 308(axis) , 403(main axis) | |
| | | CNC path status *2 | B code*1 | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | F code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | G code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | H code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | M code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Running program name of the path | string | 32 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Actual rotation speed of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | S code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | T code | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Cutting time of the path | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Actual feedrate of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Machine lock signal of the path | string | 1 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Program running time of the path | number | 8 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Number of machined parts of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Main program name of the path | string | 32 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Sequence number of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | | Total number of machined parts of the path | number | 4 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (operation screen) |
| | | Alarm information | Alarm message | string | 512 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (message screen) |
| | Alarm numbe | | number | 2 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (message screen) | |
| | Alarm type | | string | 2 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (message screen) | |
| | Operator message *2 | Operator message | string | 512 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (message screen) | |
| | | Message number | number | 2 byte | Dynamic information, always up-to-date | Not possible | •Check on the CNC screen (message screen) | |
| | Program*2 | Program | text file | ~32Mbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | Setting | Tool offset*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Workpiece origin offset amount*2 | text file | ~10Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Pitch error compensation*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | 3D error compensation*1,*2 | text file | ~1Mbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Custom macro variables*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Tool life management*1,*2 | text file | ~10Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Tool management*1,*2 | text file | ~1Mbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Tool geometry and dimensions*1,*2 | text file | ~100Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | CNC built-in 3D interference check geometry | text file | ~100Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Parameters | text file | ~1Mbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | History | Operation history | text file | ~450 Kbyte | Dynamic information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Alarm history | text file | ~450 Kbyte | Dynamic information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | | Operator message history*2 | text file | ~450 Kbyte | Dynamic information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |
| | PMC | PMC signal | number | ~768 Kbyte | Dynamic information, always up-to-date | Not Possible | •Check on the CNC screen (PMC status screen) | |
| | CNC identification number | CNC identification number | text file | 1Kbyte | Static information, always up-to-date | Possible | •Output on the CNC screen (data input/output screen) | |

*1:FANUC Power Motion i-A Plus and*2:FANUC Power Motion i-MODEL A are not supported.

*2:FANUC Digital Servo Adapter-MODEL B are not supported.