

Using Macro Command to Save Data

1. Saving Data to File with Default Filename

Purpose: Save the specified data to a file with default filename.

Command: $p1 = \text{FILE_IO}(p2, p3)$

Parameter:

$p1$: The location to receive the result of the operation. The result value is 0 if the operation succeeds; otherwise the operation fails.

$p2$: The desired operation code.

$p3$: The ID of the data to be saved.

Operation	Settings of Parameters		Filename Format
	P2 (Operation Code)	P3 (Data ID)	
Save Logged Data (.TXT)	1	ID of the data logger (0~15)	DL<ID>_<Date>_<Time>.txt
Save Logged Data (.CSV)	14	ID of the data logger (0~15)	DL<ID>_<Date>_<Time>.csv
Save Logged Alarms (.TXT)	2	0	AL_<Date>_<Time>.txt
Save Logged Alarms (.CSV)	15	0	AL_<Date>_<Time>.csv
Save Alarm Counts (.TXT)	3	0	AC_<Date>_<Time>.txt
Save Alarm Counts (.CSV)	16	0	AC_<Date>_<Time>.csv
Save Recipe Data (.TXT)	4	ID of the recipe block (0~15)	RB<ID>.txt
Save Recipe Data (.CSV)	17	ID of the recipe block (0~15)	RB<ID>.csv
Save Recipe Data (.PRD)	5	ID of the recipe block (0~15)	RB<ID>.prd
Print Screen to File (in 256	6	Number of the screen	S<ID>_<Date>_<Time>.bmp

colors)			
Print Screen to File (in 64K colors)	7	Number of the screen	S<ID>_<Date>_<Time>.bmp
Save Logged Operations (.TXT)	9	0	OL_<Date>_<Time>.txt
Save Logged Operations (.CSV)	18	0	OL_<Date>_<Time>.csv
Save Logged Data (in LDF format)	10	ID of the data logger (0~15)	DL<ID>_<Date>_<Time>.ldf
Take Picture (in BMP format)	12	ID of the USB camera (0~3)	CAM<ID>_<Date>_<Time>.bmp
Take Picture (in JPG format)	13	ID of the USB camera (0~3)	CAM<ID>_<Date>_<Time>.jpg

Note:

<ID>: ID of the data logger, ID of the recipe block, ID of the USB camera, or number of the screen

<Date>: date when saving the data; format is YYMMDD

<Time>: time when saving the data; format is hhmmss

2. Saving Data to File with Specified Filename

Purpose: Save the specified data to a file with a specified filename.

Command: $p1 = \text{FILE_IO_N}(p2, p3, p4)$

Parameter:

$p1$: The location to receive the result of the operation. The result value is 0 if the operation succeeds; otherwise the operation fails.

$p2$: The desired operation code.

$p3$: The ID of the data to be saved.

$p4$: The internal memory location to store the specified filename (or full pathname).

Operation	Settings of Parameters		
	P2 (Operation Code)	P3 (Data ID)	P4 (Filename or Full Pathname)
Save Logged Data (in CSV/TXT format)	31	ID of the data logger (0~15)	The starting Address of the internal memory \$U that stores the specified filename or full pathname. The name must be a valid Windows pathname with ASCII characters only. The character string must be null terminated and each character occupies one byte. The maximum length of the string is 127. All the folders stated in the full pathname must already exist or the file operation will fail.
Save Logged Alarms	32	0	Same as above
Save Alarm Counts	33	0	Same as above
Save Recipe Data (in CSV/TXT format)	34	ID of the recipe block (0~15)	Same as above
Save Recipe Data (in PRD format)	35	ID of the recipe block (0~15)	Same as above
Save Logged Operations	39	0	Same as above
Save Logged Data (in LDF format)	40	ID of the data logger (0~15)	Same as above

Take Picture (in BMP format)	42	ID of the USB camera (0~3)	Same as above
Take Picture (in JPG format)	43	ID of the USB camera (0~3)	Same as above