

Reference	FINS_NX
Revision	1.0
Author	JP Viskovic
Date	27/10/2017
+ Support	http://support-omron.fr/

Read/Write with FINS/UDP in a PLC from NX series controller

Function	Read/write array of word in a PLC using FINS/UDP protocol	
File	FINS_NX.slr	
Controller	NX1, NX7	
Symbol		
Principle	Function blocks FINS_Read and FINS_Write allow to read/write an array of words in a PLC using FINS/UDP protocol. (Send/Recv are no more available on NX series)	

FINS_Write Function Block

Input variables

Name	Type	values	Function
Execute	BOOL	OFF-ON	ON = FB execution
SrcNetAddr	FINS\sNetAddr		Address of NX controller (source)
DestNetAddr	FINS\sNetAddr		Address of the destined PLC
SrcDat	WORD[500]		Array of words to write
DataArea	FINS\eArea		Memory area in the destined PLC
DataAddr	UINT	0-32767	Memory address in the destined PLC
DataSize	UINT	1-500	Number of words to write

Output variables

Name	Type	values	Function
ENO	BOOL	OFF-ON	ON = executed with success
Error	BOOL	OFF-ON	Error flag (UDP or FINS)
ErrorID	WORD	0-FFFF	Socket UDP error flag
FINS_ExecCode	WORD	0-FFFF	FINS execution code

FINS_Read function block

Input variables

Name	Type	values	Function
Execute	BOOL	OFF-ON	ON = FB execution
SrcNetAddr	FINS\sNetAddr		Address of NX controller (source)
DestNetAddr	FINS\sNetAddr		Address of the destined PLC
DataArea	FINS\eArea		Memory area in the destined PLC
DataAddr	UINT	0-32767	Memory address in the destined PLC
DataSize	UINT	1-500	Number of words to read

Output variables

Name	Type	values	Function
ENO	BOOL	OFF-ON	ON = executed with success
Error	BOOL	OFF-ON	Error flag (UDP or FINS)
ErrorID	WORD	0-FFFF	Socket UDP error flag
FINS_ExecCode	WORD	0-FFFF	FINS execution code
RecvData	WORD[500]		Array of read words
RcvSize	UINT	0-500	Number of word received

Structure

FINS\sNetAddr	
NetNo	Network number
NodeNo	Node number
UnitNo	Unit number
IPAddr	IP adresse

Enumeration

FINS\eArea (ex : DestArea:=\\FINS\eArea#DM)							
DM	82	EM0	50	EM5	55	EM10	5A
CIO	B0	EM1	51	EM6	56	EM11	5B
WR	B1	EM2	52	EM7	57	EM12	5C
HR	B2	EM3	53	EM8	58	EM13	5D
AR	B3	EM4	54	EM9	59	EM14	5E

A sample program is included in the library and can be copy/past in a new section through a right click:

