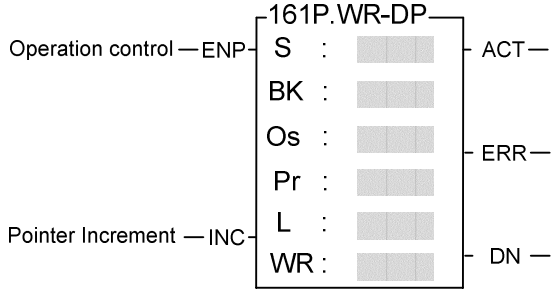
FUN161 P WR-DP	Write data record into the DATA PACK （Write Data Pack）	FUN161 P WR-DP

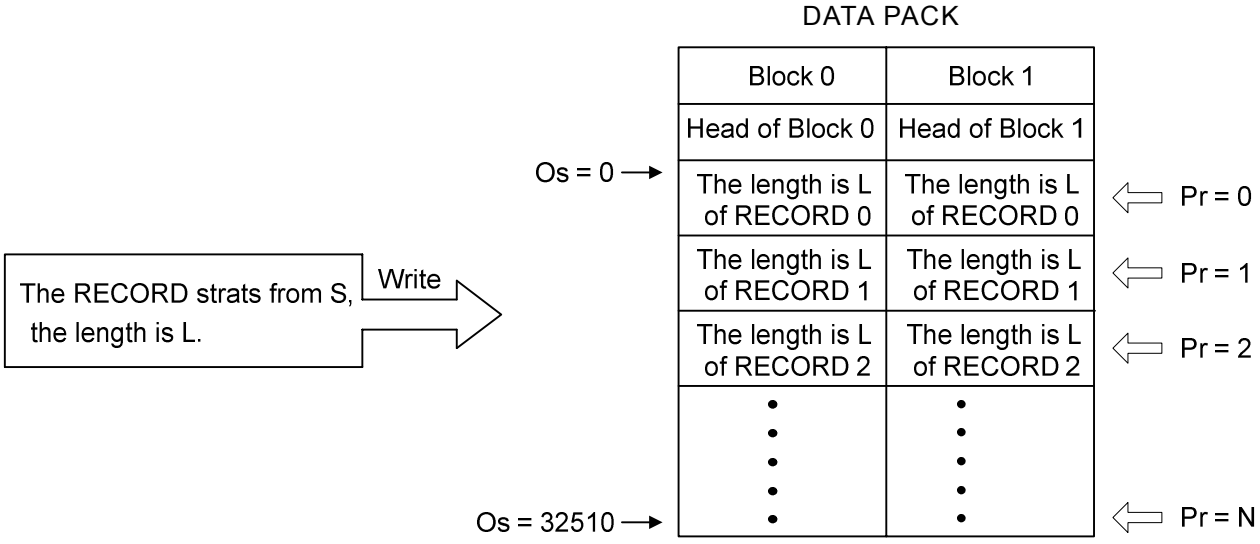
Ladder symbol



S ：Starting address of the source data
BK：Block number of the DATA PACK，0～1
Os：Offset of the block
Pr：Address of the pointer
L：Quantity of writing，1～128
WR：Starting address of working registers, it takes 2 registers
S may combine with V、Z、P0～P9 for indirect addressing application

Operand \ Range	HR R0 ｜ R3839	ROR R5000 ｜ R8071	DR D0 ｜ D4095	K	XR V、Z P0～P9
S	○	○	○		○
BK				0～1	
Os	○	○	○	0～32510	
Pr	○	○*	○		
L	○	○*	○	1～128	
WR	○	○*	○		

- The main purpose of the ROM PACK of FBs series's is used for long term storing of the user's ladder program, except this, through the FUN161/FUN162 instructions, the ROM PACK can be worked as the portable DATA PACK for machine working parameters's saving and loading.
  When execution control "ENP" changes from 0→1, it will perform the data writing, where S is the starting address of the source data, BK is the block number of the Data Pack to store this writing, Os is the offset of specified block, Pr is the pointer to point to corresponding data area, L is the quantity of this writing. The access of Data Pack manipulation adopts the concept of RECORD data structure to implement with.
  The working diagram as shown below:



- When input "INC" = 1, the content of the pointer will be increased by one after the execution of writing, it points to next record.

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- If the value of L is equal to 0 or greater than 128, or the pointed data area over the range, the output "ERR" will be 1, it will not perform the writing operation.
- It needs couple of PLC solving scans for data writing and verification; during the execution, the output "ACT" will be 1; when completing the execution and verification without the error, the output "DN" will be 1; when completing the execution and verification with the error, the output "ERR" will be 1.
  The ROM PACK can be configured to store the user's ladder program or machine's working parameters, or both. The ladder program can be stored into the block 0 only, but the machine's working parameters can be stored into block 0 or 1; the memory capacity of each block has 32K Word in total.

Example program : Writing the record into block 1 of Data Pack with the different length