● Port 1~4 support Modbus RTU/ASCII (Slave) communication protocol

. Method 1 (All OS versions of FBs PLC can support this method)

R4047 : Upper Byte = 55H，configure the communication port of Modbus RTU protocol

= Other values，Port 1~4 don't support Modbus RTU protocol (FATEK as the default)

Lower Byte : Port assignment for Modbus RTU protocol

Format as below :

Upper Byte		Lower Byte							
55		b7	b6	b5	b4	b3	b2	b1	b0

b0, Reserved ;

b1=0, Port 1 acts as FATEK protocol
   =1, Port 1 acts as Modbus RTU protocol

b2=0, Port 2 acts as FATEK protocol
   =1, Port 2 acts as Modbus RTU protocol

b3=0, Port 3 acts as FATEK protocol
   =1, Port 3 acts as Modbus RTU protocol

b4=0, Port 4 acts as FATEK protocol
   =1, Port 4 acts as Modbus RTU protocol

.
.
.

b7~b5, Reserved

※ It allows to assign multiple ports for Modbus RTU protocol，where the corresponding bit must be 1。

For example:
R4047=5502H, Assign Port 1 as Modbus RTU protocol ;
R4047=5504H, Assign Port 2 as Modbus RTU protocol ;
R4047=5506H, Assign both Port 1 & Port 2 as Modbus RTU protocol。

. Method 2 (FBs PLC OS V4.24 or later can support this method)

R4047 : Upper Byte = 56H，configure the communication port of FATEK
or Modbus RTU/ASCII communication
protocol

= Other values，it doesn't work above function

Lower Byte : Port assignment for communication protocols

Format as below :

Upper Byte   Lower Byte
| 56 | b7 | b6 | b5 | b4 | b3 | b2 | b1 | b0 |

Bits	Value	Description
b1b0	0 or1	Port 1 works FATEK protocol
	2	Port 1 works Modbus RTU protocol
	3	Port 1 works Modbus ASCII protocol
b3b2	0 or 1	Port 2 works FATEK protocol
	2	Port 2 works Modbus RTU protocol
	3	Port 2 works Modbus ASCII protocol
b5b4	0 or 1	Port 3 works FATEK protocol
	2	Port 3 works Modbus RTU protocol
	3	Port 3 works Modbus ASCII protocol
b7b6	0 or 1	Port 4 works FATEK protocol
	2	Port 4 works Modbus RTU protocol
	3	Port 4 works Modbus ASCII protocol

● Port 1～4 work the master of Modbus RTU/ASCII communication protocol
. Enable the FUN150(M-BUS) instruction, let A/R input of instruction be 0,
the assigned communication port performs the master of Modbus RTU
communication protocol
. Enable the FUN150(M-BUS) instruction, let A/R input of instruction be 1,
the assigned communication port performs the master of Modbus ASCII
communication protocol

● Assign the "FORCE to RUN" input of the PLC main unit
. If the PLC main unit has been assigned with the on-board input to work
the "Force to RUN" function, turning on this input more than 3 seconds
while PLC stays at STOP mode, the PLC main unit will reset and restart
the execution like the power off then power up; the main unit will enter into

the RUN mode if it doesn't find any error; the main unit will still stay at the STOP mode if it finds the error

● Enlarge the ladder program capacity up to 20223 Words (19967 W before)

● Remove the bug - while the system contains the maximum digital inputs (256 points in total), it causes the malfunction of Y0~Y7

● Debug the wrong transfer treatment while executing the simultaneous convergence in step ladder programming