

An example of exception response of command code 01H and exception 02H:

Sent message:

Field Name	Example (Hex)
START	No data input \geq 10 ms
Slave Address	01
Command code	01
Starting Address	04
	00
Number of Points	00
	10
CRC CHK Low	3C
CRC CHK High	F6
END	No data input \geq 10 ms

Feedback message:

Field Name	Example (Hex)
START	No data input \geq 10 ms
Slave Address	01
Function	81
Exception Code	02
CRC CHK Low	C1
CRC CHK High	91
END	No data input \geq 10 ms

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4.4 PLC Device Address

Device	Range	Effective Range			MODBUS Address	Address
		ES2/EX2	SS2	SA2/SE SX2		
S	000~255	000~1023	000~1023		000001~000256	0000~00FF
S	256~511				000257~000512	0100~01FF
S	512~767				000513~000768	0200~02FF
S	768~1023				000769~001024	0300~03FF
X	000~377 (Octal)	000~377	000~377		101025~101280	0400~04FF
Y	000~377 (Octal)	000~377	000~377		001281~001536	0500~05FF
T	000~255 bit	000~255	000~255		001537~001792	0600~06FF
	000~255 word	000~255	000~255		401537~401792	0600~06FF
M	000~255	0000 ~ 4095	0000~4095	002049~003584		0800~08FF
M	256~511					0900~09FF
M	512~767					0A00~0AFF
M	768~1023					0B00~0BFF
M	1024~1279					0C00~0CFF
M	1280~1535					0D00~0DFF

Device	Range	Effective Range			MODBUS Address	Address		
		ES2/EX2	SS2	SA2/SE SX2				
M	1536~1791	0000 ~ 4095	0000~4095		045057~047616	B000~B0FF		
M	1792~2047					B100~B1FF		
M	2048~2303					B200~B2FF		
M	2304~2559					B300~B3FF		
M	2560~2815					B400~B4FF		
M	2816~3071					B500~B5FF		
M	3072~3327					B600~B6FF		
M	3328~3583					B700~B7FF		
M	3584~3839					B800~B8FF		
M	3840~4095					B900~B9FF		
C	000~199 (16-bit)					000~199	000~199	003585~003784
		000~199	000~199	403585~403784	0E00~0EC7			
C	200~255 (32-bit)	200~255	200~255	003785~003840	0EC8~0EFF			
		200~255	200~255	401793~401903 (Odd address valid)	0700~076F			
D	000~255	0000 ~ 9999	0000 ~ 4999	0000 ~ 9999	404097~405376	1000~10FF		
D	256~511					1100~11FF		
D	512~767					1200~12FF		
D	768~1023					1300~13FF		
D	1024~1279					1400~14FF		
D	1280~1535					1500~15FF		
D	1536~1791					1600~16FF		
D	1792~2047					1700~17FF		
D	2048~2303					1800~18FF		
D	2304~2559					1900~19FF		
D	2560~2815					1A00~1AFF		
D	2816~3071					1B00~1BFF		
D	3072~3327					1C00~1CFF		
D	3328~3583					1D00~1DFF		
D	3584~3839					1E00~1EFF		
D	3840~4095					1F00~1FFF		
D	4096~4351				436865~440960	9000~90FF		
D	4352~4999					9100~91FF		
D	4608~4863					9200~92FF		
D	4864~5119					9300~93FF		
D	5120~5375					9400~94FF		
D	5376~5631					9500~95FF		
D	5632~5887					9600~96FF		
D	5888~6143					9700~97FF		
						N/A		

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Device	Range	Effective Range			MODBUS Address	Address		
		ES2/EX2	SS2	SA2/SE SX2				
D	6144~6399	0000 ~ 9999	N/A	0000 ~ 9999	436865~440960	9800~98FF		
D	6400~6655					9900~99FF		
D	6656~6911					9A00~9AFF		
D	6912~7167					9B00~9BFF		
D	7168~7423					9C00~9CFF		
D	7424~7679					9D00~9DFF		
D	7680~7935					9E00~9EFF		
D	7936~8191					9F00~9FFF		
D	8192~8447					A000~A0FF		
D	8448~8703				A100~A1FF			
D	8704~8959				A200~A2FF			
D	8960~9215				A300~A3FF			
D	9216~9471				A400~A4FF			
D	9472~9727				A500~A5FF			
D	9728~9983				A600~A6FF			
D	9984~9999				A700~A70F			
D	10000~11999				Applicable to DVP-SE		442769~444768	A710~AEDF

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4.5 Command Code

4.5.1 Command Code: 01, Read Status of Contact (Input point X is not included)

Number of Points (max) = 255 (Dec) = FF (Hex)

Example : Read contacts T20~T56 from Slave ID#1

PC→PLC “:01 01 06 14 00 25 BF CR LF”

Sent message:

Field Name	ASCII
STX	:
Slave Address	01
Command code	01
Starting Address Hi	06
Starting Address Lo	14
Number of Points Hi	00
Number of Points Lo	25
Error Check (LRC)	BF
ETX 1	0D (Hex)
ETX 0	0A (Hex)