

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

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		0E00~0EC7
		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				405377~408192	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		N/A	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

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				440961~442768	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			442767~444768	A710~AEDF

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)