EX9033-M/EX9036 –M Quick Start

More Feature:

▲ For 2/3/4 wire

▲ Off-set value setting for every channel

▲ Break line detection

▲ Modbus function

1. **The default setting is MODBUS mode after Power On .**

2. **Using INIT pin to contact with GND pin then Power On will enter Normal mode.**

3. **Command: $00P0 is set EX9036-M to Normal mode after Repower On. On normal mode, user can set other setting like address, Baudrate, ….. (Please check the EX9000 user manual).**

4. **Command: $AAP1 is set to MODBUS mode after Repower On .**

5. **Under Normal mode that Command: $AAP can check which mode it is after Repower On .**
   response:
   !AA10 = Normal
   !AA11 = MODBUS

6. **04(0x4) READ INPUT CHANNELS**

RTD Type Setting (TT)

Type Code	Temperature Sensor Type	Temperature Range °C
20	Platinum 100, α= 0.00385	-100 ~ 100
21	Platinum 100, α= 0.00385	0 ~ 100
22	Platinum 100, α= 0.00385	0 ~ 200
23	Platinum 100, α= 0.00385	0 ~ 600
24	Platinum 100, α= 0.003916	-100 ~ 100
25	Platinum 100, α= 0.003916	0 ~ 100
26	Platinum 100, α= 0.003916	0 ~ 200
27	Platinum 100, α= 0.003916	0 ~ 600
28	Nickel 120	-80 ~ 100
29	Nickel 120	0 ~ 100
2A	Platinum 1000, α= 0.00385	-200 ~ 600
2B	Cu 100 @ 0°C,α= 0.00421	-20 ~ 150
2C	Cu 100 @ 25°C,α= 0.00427	0 ~ 200
2D	Cu 1000 @ 0°C,α= 0.00421	-20 ~ 150
2E	Platinum 100, α= 0.00385	-200 ~ 200
2F	Platinum 100, α= 0.003916	-200 ~ 200
80	Platinum 100, α= 0.00385	-200 ~ 600
81	Platinum 100, α= 0.003916	-200 ~ 600
82	Cu 50 @ 0°C	-50 ~ 150
83	Nickel 100	-60 ~ 180

This function code is used to read from 1 to 3(EX9033-M), 1 to 6(EX9036-M) continuous analog input channels.

Request

00	Address	1Byte	1 to 247
01	Function code	1Byete	0x04
02-03	Starting channel	2 Bytes	0 to 2 for reading analog inputs (**EX9033-M**) 0 to 5 for reading analog inputs (**EX9036-M**)
04-05	Number of input Channels(N)	2Bytes	1 to 6;(Starting channel+N)<=3 (**EX9033-M**) 1 to 6;(Starting channel+N)<=6 (**EX9036-M**) for reading analog inputs

Response

00	Address	1Byte	1 to 247
01	Function code	1Byete	0x04
02	Byte count	1 Byte	2 x N
03~	Data of input channels	2 x N Bytes	

Error Response

00	Address	1Byte	1 to 247
01	Function code	1Byete	0x84
	Exception code	1 Byte	02:starting channel out of range 03:(starting channel+number of input channels) out of range,incorrect mumber of bytes receuved