

M-7000 Address Mapping (Base 1)

M-7002

Address	Description	Attribute
00001 ~ 00004	Digital output	R/W
00065 ~ 00069	Digital input latch high	R/W
00073 ~ 00076	Digital output latch high	R/W
00097~ 00101	Digital input latch low	R/W
00105 ~ 00108	Digital output latch low	R/W
00129 ~ 00132	Digital output safe value	R/W
00193 ~ 00196	Digital output power-on value	R/W
00257	Communication protocol 0: DCON, 1:Modbus RTU	R/W
00259	Filter settings, 0: 60 Hz rejection, 1: 50 Hz rejection	R/W
00260	Host Watchdog mode 0: The same as I-7000 series module 1: AO and DO commands can be used to clear the Host Watchdog timeout status	R/W
00261	Enables or disables the Host Watchdog 0: disabled, 1: enabled	R/W
00262	Enables or disables the alarm function 0: disabled, 1: enabled	R/W
00263	Alarm mode 0: momentary, 1: latch	R/W
00264	Clear DI/O latch, write 1 to clear	W
00265	Clear all DI counters, write 1 to clear	W
00269	Modbus data format 0: hexadecimal 1: engineering	R/W
00270	Host Watchdog timeout status. Write 1 to clear the Host Watchdog timeout status	R/W
00271	AI filter format 0: normal, 1: fast	R/W
00272	Write 1 to load the factory calibration parameters	W
00273	Reset status 0: not the first the status has been read after being powered on	R

	1: the first time the status has been read after being powered on	
00289 ~ 00292	Low alarm status of channels 0 to 3, write 1 to clear	R/W
00305 ~ 00308	High alarm status of channels 0 to 3, write 1 to clear	R/W
00513 ~ 00517	Digital input counter channel 0 to 4, write 1 to clear	W
10033 ~ 10037	Digital input status for channels 0 to 4	R
30001 ~ 30004	Analog input value for channels 0 to 3	R
30097 ~ 30101	Digital input counter for channels 0 to 4	R
40225 ~ 40228	High alarm value	R/W
40233 ~ 40236	Low alarm value	R/W
40257 ~ 40260	Type code for channels 0 to 3	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	The name of the module (low word)	R
40484	The name of the module (high word)	R
40485	Module address, valid range: 0x1 ~ 0xF7	R
40486	Bits 5:0 Baud Rate, 0x0A Bits 7:6 Reserved	R
40488	Response delay time, 0~30, in ms	R/W
40489	Host Watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40490	Channel enabled/disabled	R/W
40492	Host Watchdog timeout count, write 0 to clear	R/W

M-7004

Address	Description	Attribute
30001 ~ 30020 40001 ~ 40020	Temperature readings of port 0 in 0.01°C	R
30021 ~ 30040 40021 ~ 40040	Temperature readings of port 1 in 0.01°C	R
30041 ~ 30060 40041 ~ 40060	Temperature readings of port 2 in 0.01°C	R
30061 ~ 30080 40061 ~ 40080	Temperature readings of port 3 in 0.01°C	R
30081 ~ 30084 40081 ~ 40084	Number of sensors of a port for port 0 to 3.	R
30097 ~ 30100 40097 ~ 40100	Number of not assigned sensors of a port for port 0 to 3.	R
30113 ~ 30116 40113 ~ 40116	Number of removed sensors of a port for port 0 to 3.	R
30129 ~ 30132 40129 ~ 40132	Number of scanned sensors of a port for port 0 to 3.	R
30145 ~ 30148 40145 ~ 40148	Number of error counts of a port for port 0 to 3.	R
30161 ~ 30240 40161 ~ 40240	Serial number of sensors of port 0, 4 registers for a sensor	R

Address	Description	Attribute
30241 ~ 30320 40241 ~ 40320	Serial number of sensors of port 1, 4 registers for a sensor	R
30321 ~ 30400 40321 ~ 40400	Serial number of sensors of port 2, 4 registers for a sensor	R
30401 ~ 30480 40401 ~ 40480	Serial number of sensors of port 3, 4 registers for a sensor	R
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	RS-485 module address, 1 to 247 Only for Modbus RTU protocol	R/W
40486	RS-485 baud rate and parity settings Bits 5:0 Baud rate, valid range: 3 ~ 10 Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bit 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	R/W
40488	RS-485 response delay time in ms, valid range, 0 ~ 30	R/W
40489	RS-485 host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40492	RS-485 host watchdog timeout count, write 0 to clear	R/W
40513 ~ 40532	Assign channel index to a new sensor in the new list of port 0	W
40533 ~ 40552	Assign channel index to a new sensor in the new list of port 1	W
40553 ~ 40572	Assign channel index to a new sensor in the new list of port 2	W
40573 ~ 40592	Assign channel index to a new sensor in the new list of port 3	W
30593 ~ 30612 40593 ~ 40612	High latched Temperature readings of port 0 in 0.01 °C	R

Address	Description	Attribute
30613 ~ 30632 40613 ~ 40632	High latched Temperature readings of port 1 in 0.01 °C	R
30633 ~ 30652 40633 ~ 40652	High latched Temperature readings of port 2 in 0.01 °C	R
30653 ~ 30672 40653 ~ 40672	High latched Temperature readings of port 3 in 0.01 °C	R
30673 ~ 30692 40673 ~ 40692	Low latched Temperature readings of port 0 in 0.01 °C	R
30693 ~ 30712 40693 ~ 40712	Low latched Temperature readings of port 1 in 0.01 °C	R
30713 ~ 30732 40713 ~ 40732	Low latched Temperature readings of port 2 in 0.01 °C	R
30733 ~ 30752 40733 ~ 40752	Low latched Temperature readings of port 3 in 0.01 °C	R
30753 ~ 30832 40753 ~ 40832	Serial number of not assigned sensors of port 0, 4 registers for a sensor	R
30833 ~ 30912 40833 ~ 40912	Serial number of not assigned sensors of port 1, 4 registers for a sensor	R
30913 ~ 30992 40913 ~ 40992	Serial number of not assigned sensors of port 2, 4 registers for a sensor	R
30993 ~ 31072 40993 ~ 41072	Serial number of not assigned sensors of port 3, 4 registers for a sensor	R

Address	Description	Attribute
31073 ~ 31152 41073 ~ 41152	Serial number of removed sensors of port 0, 4 registers for a sensor	R
31153 ~ 31232 41153 ~ 41232	Serial number of removed sensors of port 0, 4 registers for a sensor	R
31233 ~ 31312 41233 ~ 41312	Serial number of removed sensors of port 0, 4 registers for a sensor	R
31313 ~ 31392 41313 ~ 41392	Serial number of removed sensors of port 0, 4 registers for a sensor	R
00001 ~ 00004	Write 1 to rescan sensors on a port for port 0 to 3.	W
00033 ~ 00052	Write 1 to remove the channel index of a sensor for port 0	W
00053 ~ 00072	Write 1 to remove the channel index of a sensor for port 1	W
00073 ~ 00092	Write 1 to remove the channel index of a sensor for port 2	W
00093 ~ 00112	Write 1 to remove the channel index of a sensor for port 3	W
00129 ~ 00132	Write 1 to clear all high latched temperature readings of a port for port 0 to 3	W
00161 ~ 00164	Write 1 to clear all low latched temperature readings of a port for port 0 to 3	W
00257	RS-485 Protocol, 0: DCON, 1: Modbus RTU Only for Modbus RTU protocol	R/W
00260	Modbus RTU host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status Only for Modbus RTU protocol	R/W
00261	RS-485 host watchdog mode, 1: enable, 0: disable. Only for Modbus RTU protocol	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status Only for Modbus RTU protocol	R/W

Address	Description	Attribute
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00280	Write 1 to clear all high latched temperature readings	W
00281	Write 1 to clear all low latched temperature readings	W
00385 ~ 00404	Write 1 to clear high latched temperature reading of a sensor of port 0	W
00405 ~ 00424	Write 1 to clear high latched temperature reading of a sensor of port 1	W
00425 ~ 00444	Write 1 to clear high latched temperature reading of a sensor of port 2	W
00445 ~ 00464	Write 1 to clear high latched temperature reading of a sensor of port 3	W
00465 ~ 00484	Write 1 to clear low latched temperature reading of a sensor of port 0	W
00485 ~ 00504	Write 1 to clear low latched temperature reading of a sensor of port 1	W
00505 ~ 00524	Write 1 to clear low latched temperature reading of a sensor of port 2	W
00525 ~ 00544	Write 1 to clear low latched temperature reading of a sensor of port 3	W

M-7005

Address	Description	Attribute
00001 ~ 00006	Digital output value of channel 0 to 5	R/W
00097 ~ 00102	Safe value of digital output channel 0 to 5	R/W
00193 ~ 00198	Power-on value of digital output channel 0 to 5	R/W
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00267	Temperature scale, 1: Celsius, 0: Fahrenheit	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00272	Write 1 to load factory calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00289 ~ 00296	Write 1 to clear low latched alarm of channel 0 to 7	W
00305 ~ 00312	Write 1 to clear high latched alarm of channel 0 to 7	W
00321 ~ 00328	Enable/disable high alarm of channel 0 to 7	R/W
00329 ~ 00336	Enable/disable low alarm of channel 0 to 7	R/W
00337 ~ 00344	High alarm type of channel 0 to 7, 0: latched, 1: momentary	R/W
00345 ~ 00352	Low alarm type of channel 0 to 7, 0: latched, 1: momentary	R/W
10129 ~ 10136 00129 ~ 00136	Over/under range status of channel 0 to 7	R
30001 ~ 30008 40001 ~ 40008	Analog input value of channel 0 to 7	R

Address	Description	Attribute																				
40225 ~ 40232	High alarm limit of channel 0 to 7	R/W																				
40233 ~ 40240	Low alarm limit of channel 0 to 7	R/W																				
40257 ~ 40262	Type code of channel 0 to 7	R/W																				
40289 ~ 40294	Temperature offset of channel 0 to 7 in 0.1 °C, valid range: -128 ~ 127	R/W																				
40321 ~ 40328	High alarm DO port of channel 0 to 7	R/W																				
40329 ~ 40336	Low alarm DO port of channel 0 to 7	R/W																				
40385 ~ 40390	Resistance offset of channel 0 to 7 in 0.1 ohms, valid range: 0 ~ 255	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
Code	0x03	0x04	0x05	0x06																		
Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
40513 ~ 40520	Steinhart Coefficient A of type code 70 to 77	R/W																				
40545 ~ 40552	Steinhart Coefficient B of type code 70 to 77	R/W																				
40577 ~ 40584	Steinhart Coefficient C of type code 70 to 77	R/W																				

M-7011

Address	Description	Attribute
30001 40001	Analog input value of channel 0	R
30129 40129	CJC temperature in 0.01C	R
30097 40097	Counter value of DI 0	R
40225 ~ 40226	Low/high alarm limits	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address	R/W
40486	Baud rate	R/W
40487	Type code	R/W
40488	Modbus response delay time in ms	R/W
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40491	Module CJC offset in 0.01C	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
40495	LED mode, 1: controlled by module, 2: controlled by host (for M-7011D only)	R/W
40496	LED data for host control mode, valid ranges: -19999 ~ + 19999 (for M-7011D only)	W
10001 00001	Digital input channel 0	R
10129 00129	1: thermocouple open wire	R
00033 ~	Digital outputs	R/W
00097 ~	Safe values of digital outputs	R/W
00193 ~	Power on values of digital outputs	R/W
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00262	1: enable, 0: disable alarm	R/W
00263	1: latch, 0: momentary alarm	R/W
00264	1: clear latch alarm	W
00266	1: clear counter	W
00268	1: enable, 0: disable CJC offset	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W

00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after power d on, 0: not the first read after powered on	R
00276	Open wire detection, 1: enable, 0: disable	R/W

M-7013P

Address	Description	Attribute
30001	Analog input value of channel 0	R
30097	Counter value of DI 0	R
40225 ~ 40226	Low/high alarm limits	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address	R/W
40486	Baud rate	R/W
40487	Type code	R/W
40488	Modbus response delay time in ms	R/W
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
40495	LED mode, 1: controlled by module, 2: controlled by host (for M-7011D only)	R/W
40496	LED data for host control mode, valid ranges: -19999 ~ + 19999 (for M-7011D only)	W
30865	Low word of resistance value of channel 0 in 0.01 ohm	R
30866	High word of resistance value of channel 0 in 0.01 ohm	R
10001	Digital input channel 0	R
00033 ~	Digital outputs	R/W
00097 ~	Safe values of digital outputs	R/W
00193 ~	Power on values of digital outputs	R/W
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00262	1: enable, 0: disable alarm	R/W
00263	1: latch, 0: momentary alarm	R/W
00264	1: clear latch alarm	W
00266	1: clear counter	W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after power d on, 0: not the first read after powered on	R

M-7015/M-7015P (firmware version B202 and later)

Address	Description	Attribute																				
10129 ~ 10134 00129 ~ 00134	Over/under range status of channel 0 to 5	R																				
30001 ~ 30006 40001 ~ 40006	Analog input value of channel 0 to 5	R																				
40257 ~ 40262	Type code of channel 0 to 5	R/W																				
40289 ~ 40294	Temperature offset of channel 0 to 5 in 0.1°C, valid range: -128 ~ 127	R/W																				
40385 ~ 40390	Resistance offset of channel 0 to 5 in 0.1 ohms, valid range: 0 ~ 255	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="407 1094 1068 1249"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
Code	0x03	0x04	0x05	0x06																		
Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				

Address	Description	Attribute
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00272	Write 1 to load factory calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00275	1: force to return 32767 for wire opening	R/W

Notes:

1. The max number of analog output registers written in a command is 11.
2. The command of loading factory calibration parameters takes about 3 seconds. The next command should be sent after 3 seconds.

M-7016

Address	Description	Attribute
30001 40001	Analog input value of channel 0	R
30002 40002	Analog input value of channel 1	R
30097 40097	Counter value of digital input	R
40033	Output value of excitation voltage, 0 ~ 10000	R/W
40193	Power on value of excitation voltage, 0 ~ 10000	R/W
00001	Digital input value of channel 0	R
00033	Digital output value of channel 0	R/W
00034	Digital output value of channel 1	R/W
00035	Digital output value of channel 2	R/W
00036	Digital output value of channel 3	R/W
00097	Safe value of digital output channel 0	R/W
00098	Safe value of digital output channel 1	R/W
00099	Safe value of digital output channel 2	R/W
00100	Safe value of digital output channel 3	R/W
00193	Power on value of digital output channel 0	R/W
00194	Power on value of digital output channel 1	R/W
00195	Power on value of digital output channel 2	R/W
00196	Power on value of digital output channel 3	R/W
40161	S1 value of linear mapping	R/W
40162	S2 value of linear mapping	R/W
40163	T1 value of linear mapping	R/W
40164	T2 value of linear mapping	R/W
40225	Low limit of alarm value	R/W
40226	High limit of alarm value	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address (1 ~ 247)	R/W
40486	Baud rate (3 ~ 10)	R/W
40487	Type code (0 ~ 6)	R/W
40488	Response delay time (0 ~ 30)	R/W
40489	Host watchdog timeout time in 100ms (0 ~ 255)	R/W
40490	Channel mode, 0: channel 0, 1: channel 1, 2: 2-channel mode	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
40495	LED control mode, 1: module, 2: host	R/W
40496	LED data in host control mode, -19999 ~ +19999, read as 0	W
00257	Protocol selection, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W

00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	Host watchdog, 0: disable, 1: enable	R/W
00262	Alarm, 0: disable, 1: enable	R/W
00263	Alarm type, 0: momentary, 1: latched	R/W
00264	1 to clear latched alarm	W
00265	Linear mapping, 0: disable, 1: enable	R/W
00266	1 to clear counter	W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watchdog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R

M-7017/M-7017R/M-7017C/M-7017RC/M-7017R-A5 (firmware version B300 and later)

Address	Description	Attribute																				
10129 ~ 10136 00129 ~ 00136	Over/under range status of channel 0 to 7 for 4 ~ 20mA or 0 ~ 20mA ranges	R																				
30001 ~ 30008 40001 ~ 40008	Analog input value of channel 0 to 7	R																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>0x03</th> <th>0x04</th> <th>0x05</th> <th>0x06</th> </tr> </thead> <tbody> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <th>Code</th> <th>0x07</th> <th>0x08</th> <th>0x09</th> <th>0x0A</th> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40487	Type code	R/W																				
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 00h ~ FFh	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W																				
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W																				
00261	1: enable, 0: disable host watchdog	R/W																				
00269	Modbus data format, 0: hex, 1: engineering	R/W																				
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W																				
00271*	1: enable, 0: disable fast mode	R/W																				
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R																				

Note: Address 00271 is only available to the M-7017R and M-7017R-A5.

M-7017RMS

Address	Description	Attribute																				
30001 ~ 30008 40001 ~ 40008	Analog input value of channel 0 to 7	R																				
40257 ~ 40264	Type code of channel 0 to 7	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="407 758 1068 909"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 00h ~ FFh	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W																				
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W																				
00261	1: enable, 0: disable host watchdog	R/W																				
00269	Modbus data format, 0: hex, 1: engineering	R/W																				
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W																				
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R																				

M-7017Z

Address	Description	Attribute																				
10129 ~ 10138 00129 ~ 00138	Over/under range status of channel 0 to 9 for 4 ~ 20mA or 0 ~ 20mA ranges	R																				
30001 ~ 30020 40001 ~ 40020	Analog input value of channel 0 to 19	R																				
40257 ~ 40276	Type code of channel 0 to 19	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="407 940 1068 1094"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, low word	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
40497	Channel enable/disable, high word	R/W																				
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W																				
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W																				
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W																				
00261	1: enable, 0: disable host watchdog	R/W																				
00269	Modbus data format, 0: hex, 1: engineering	R/W																				
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W																				

00271	1: enable, 0: disable fast mode	R/W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00277	1: single-ended mode, 0: differential mode	R/W

M-7018/M-7018R (firmware version B305 and later)

Address	Description	Attribute																				
30001 ~ 30008 40001 ~ 40008	Analog input value of channel 0 to 7	R																				
30129 40129	CJC temperature in 0.01°C	R																				
40353 ~ 40360	CJC offset of channel 0 to 7 in 0.1°C. 1 for 0.1, 127 for 12.7, 255 for -0.1, 128 for -12.8	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	19200	38400	57600	115200																		
40487	Type code	R/W																				
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 00h ~ FFh	R/W																				
40491	Module CJC offset in 0.01°C	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W																				
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W																				
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W																				
00261	1: enable, 0: disable host watchdog	R/W																				
00268	1: enable, 0: disable CJC	R/W																				
00269	Modbus data format, 0: hex, 1: engineering	R/W																				
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W																				

00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
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M-7018Z

Address	Description	Attribute																				
30001 ~ 30010 40001 ~ 40010	Analog input value of channel 0 to 9	R																				
30129 40129	CJC temperature in 0.01°C	R																				
40257 ~ 40266	Type code of channel 0 to 9	R/W																				
40353 ~ 40362	CJC offset of channel 0 to 9 in 0.1°C. 1 for 0.1, 127 for 12.7, 255 for -0.1, 128 for -12.8	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="407 940 1068 1094"> <thead> <tr> <th>Code</th> <th>0x03</th> <th>0x04</th> <th>0x05</th> <th>0x06</th> </tr> </thead> <tbody> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <th>Code</th> <th>0x07</th> <th>0x08</th> <th>0x09</th> <th>0x0A</th> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 000h ~ 3FFh	R/W																				
40491	Module CJC offset in 0.01°C	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W																				
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W																				
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W																				
00261	1: enable, 0: disable host watchdog	R/W																				
00268	1: enable, 0: disable CJC	R/W																				
00269	Modbus data format, 0: hex, 1: engineering	R/W																				
00270	Host watch dog timeout status, write 1 to clear host	R/W																				

	watch dog timeout status	
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R

M-7018-16

Address	Description	Attribute																				
30001 ~ 30016 40001 ~ 40016	Analog input value of channel 0 to 15	R																				
30033 ~ 30048 40033 ~ 40048	Temperature reading of channel 0 to 15 in 1°C	R																				
30129 40129	CJC temperature in 0.01°C	R																				
40353 ~ 40368	CJC offset of channel 0 to 15 in 0.1°C. 1 for 0.1, 127 for 12.7, 255 for -0.1, 128 for -12.8	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
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Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40487	Type code	R/W																				
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 00h ~ FFh	R/W																				
40491	Module CJC offset in 0.01°C	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				

Address	Description	Attribute
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00268	1: enable, 0: disable CJC	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R

M-7019R (firmware version B300 and later)

Address	Description	Attribute																				
10129 ~ 10136 00129 ~ 00136	Over/under range status of channel 0 to 7	R																				
30001 ~ 30008 40001 ~ 40008	Analog input value of channel 0 to 7	R																				
30129 40129	CJC temperature in 0.01°C	R																				
40257 ~ 40264	Type code of channel 0 to 7	R/W																				
40289 ~ 40296	Temperature offset of channel 0 to 7 in 0.1°C, valid range: -128 ~ 127	R/W																				
40353 ~ 40360	CJC offset of channel 0 to 7 in 0.01°C, valid range: -4096 ~ 4096	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
Code	0x03	0x04	0x05	0x06																		
Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 00h ~ FFh	R/W																				
40491	Module CJC offset in 0.01°C	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
40493	CJC update setting, 0 ~ 2	R/W																				

Address	Description	Attribute
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00268	1: enable, 0: disable CJC	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00272	Write 1 to load factory calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00274	Sampling rate, 1: 8Hz, 0: 10Hz	R/W
00276	Open thermocouple detection, 1: enable, 0: disable (for firmware version B307 and later)	R/W

Notes:

1. The max number of analog output registers written in a command is 11.
2. The command of loading factory calibration parameters takes about 3 seconds.
The next command should be sent after 3 seconds.

M-7019Z

Address	Description	Attribute																				
10129 ~ 10138 00129 ~ 00138	Over/under range status of channel 0 to 9	R																				
30001 ~ 30010 40001 ~ 40010	Analog input value of channel 0 to 9	R																				
30129 40129	CJC temperature in 0.01°C	R																				
40257 ~ 40266	Type code of channel 0 to 9	R/W																				
40289 ~ 40298	Temperature offset of channel 0 to 9 in 0.1°C, valid range: -128 ~ 127	R/W																				
40353 ~ 40362	CJC offset of channel 0 to 9 in 0.01°C, valid range: -4096 ~ 4096	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word)	R																				
40484	Module name (high word)	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
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Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40490	Channel enable/disable, 000h ~ 3FFh	R/W																				
40491	Module CJC offset in 0.01°C	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				
40493	CJC update setting, 0 ~ 2	R/W																				

Address	Description	Attribute
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00259	Filter setting, 0: 60Hz rejection, 1: 50Hz rejection	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00268	1: enable, 0: disable CJC	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00272	Write 1 to load factory calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00276	Open thermocouple detection, 1: enable, 0: disable	R/W

Notes:

1. The max number of analog output registers written in a command is 11.
2. The command of loading factory calibration parameters takes about 3 seconds. The next command should be sent after 3 seconds.

M-7022 (firmware version B102 and later)

Address	Description	Attribute
40001 ~ 40002	Analog output value	R/W
40065 ~ 40066	Analog output read back	R
40097 ~ 40098	Safe output value	R/W
40193 ~ 40194	Power on output value	R/W
40257 ~ 40258	Type code	R/W
40289 ~ 40290	Slew rate	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address	R/W
40486	Baud rate	R/W
40488	Modbus response delay time in ms	R/W
40489	Host watchdog timeout in 0.1s	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
00257	Protocol, 0:DCON, 1:Modbus	R/W
00258	Modbus Protocol, 0:RTU. 1:ASCII	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout	R/W
00261	1: enable, 0:disable host watchdog	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after power ed on, 0: not the first read after powered on	R

Type Code	Output Range	Data Format	Max	Min
0	0 ~ 20 mA	Engineering	20000	0
		Hexadecimal	0FFFh	0000h
1	4 ~ 20 mA	Engineering	20000	4000
		Hexadecimal	0FFFh	0000h
2	0 ~ 10 V	Engineering	10000	0
		Hexadecimal	0FFFh	0000h
4	0 ~ 5 V	Engineering	5000	0
		Hexadecimal	0FFFh	0000h

Note: Engineering data format and type code 4 are supported by firmware version B102 and later.

M-7024 (firmware version A201 and later)

Address	Description	Attribute
40001 ~ 40004	Analog output value	R/W
40065 ~ 40068	Analog output read back	R
40097 ~ 40100	Safe output value	R/W
40193 ~ 40196	Power on output value	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address	R/W
40486	Baud rate	R/W
40487	Type code	R/W
40488	Modbus response delay time in ms	R/W
40489	Host watchdog timeout in 0.1s	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
40494	Slew rate	R/W
00257	Protocol, 0:DCON, 1:Modbus	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout	R/W
00261	1: enable, 0:disable host watchdog	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after power ed on, 0: not the first read after powered on	R

Type Code	Output Range	Data Format	+F.S.	-F.S.
30	0 to 20 mA	Engineering	20000	0
		Hexadecimal	3FFF	0000
31	4 to 20 mA	Engineering	20000	04000
		Hexadecimal	3FFF	0000
32	0 to +10 V	Engineering	10000	0
		Hexadecimal	3FFF	0000
33	-10 to +10 V	Engineering	+10000	-10000
		Hexadecimal	3FFF	C000
34	0 to +5 V	Engineering	+5000	0
		Hexadecimal	3FFF	0000
35	-5 to +5 V	Engineering	+5000	-5000
		Hexadecimal	3FFF	C000

M-7024R

Address	Description	Attribute
40001 ~ 40004	Analog output value	R/W
40065 ~ 40068	Analog output read back	R
40097 ~ 40100	Safe output value	R/W
40129 ~ 40133	Counter value of digital input	R
40193 ~ 40196	Power on output value	R/W
00033 ~ 00037	Digital input value	R
00065 ~ 00069	High latched value of DI	R
00097 ~ 00101	Low latched value of DI	R
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address	R/W
40486	Baud rate	R/W
40487	Type code	R/W
40488	Modbus response delay time in ms	R/W
40489	Host watchdog timeout in 0.1s	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
40494	Slew rate	R/W
00257	Protocol, 0:DCON, 1:Modbus	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout	R/W
00261	1: enable, 0:disable host watchdog	R/W
00264	Write 1 to clear latched DI	W
00269	Modbus data format, 0: hex, 1: engineering	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after power ed on, 0: not the first read after powered on	R
00513 ~ 00517	Write 1 to clear DI counter value	W

M-7024U

Address	Description	Attribute																				
30065 ~ 30068 40065 ~ 40068	Analog output read back of channel 0 to 3	R																				
30129 ~ 30132 40129 ~ 40132	Counter value of digital input channel 0 to 3	R																				
40001 ~ 40004	Analog output value of channel 0 to 3	R/W																				
40097 ~ 40100	Safe analog output value of channel 0 to 3	R/W																				
40193 ~ 40196	Power on analog output value of channel 0 to 3	R/W																				
40257 ~ 40260	Analog output type code of channel 0 to 3	R/W																				
40289 ~ 40292	Analog output slew rate of channel 0 to 3	R/W																				
40481	Firmware version (low word)	R																				
40482	Firmware version (high word)	R																				
40483	Module name (low word), 0x0070	R																				
40484	Module name (high word), 0x2425	R																				
40485	Module address, valid range: 1 ~ 247	R/W																				
40486	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="407 1255 1068 1409"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
Code	0x03	0x04	0x05	0x06																		
Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40492	Host watchdog timeout count, write 0 to clear	R/W																				

Address	Description	Attribute
00033 ~ 00046 10033 ~ 10046	Digital input value of channel 0 to 3	R
00065 ~ 00068 10065 ~ 10068	High latched value of DI	R
00073 ~ 00076 10073 ~ 10076	High latched value of DO	R
00097 ~ 00100 10097 ~ 10100	Low latched value of DI	R
00105 ~ 00108 10105 ~ 10108	Low latched value of DO	R
00225 ~ 00228 10225 ~ 10228	Status of current output open wire or voltage output short circuit	R
00001 ~ 00004	Digital output value of channel 0 to 3	R/W
00129 ~ 00132	Safe value of digital output channel 0 to 3	R/W
00161 ~ 00164	Power on value of digital output channel 0 to 3	R/W
00193 ~ 00196	Counter update trigger edge of digital input channel 0 to 3	R/W
00257	Protocol, 0: DCON, 1: Modbus	R/W
00260	Modbus host watchdog mode 0: same as I-7000 1: can use AO and DO command to clear host watchdog timeout status	R/W
00261	1: enable, 0: disable host watchdog	R/W
00264	Write 1 to clear latched DIO states	W
00265	DI active state	R/W
00266	DO active state	R/W
00269	Modbus data format, 0: hex, 1: engineering	R/W

Address	Description	Attribute
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00272	Write 1 to load factory default calibration parameters	W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00513 ~ 00516	Write 1 to clear counter value of digital input channel 0 to 3	W
00769 ~ 00772	Enable retained analog output for channel 0 to 3	R/W

Analog Outputs

Type Code	Range	Data Format	Minimum	Maximum
0	0 mA ~ +20 mA	Engineering	0	+20000
		Hexadecimal	0000h	FFFFh
1	+4 mA ~+20 mA	Engineering	+4000	+20000
		Hexadecimal	0000h	FFFFh
2	0V ~ +10 V	Engineering	0	+10000
		Hexadecimal	0000h	FFFFh
3	+/-10 V	Engineering	-10000	+10000
		Hexadecimal	8000h	7FFFh
4	0 V ~ +5 V	Engineering	0	+5000
		Hexadecimal	0000h	FFFFh
5	+/-5 V	Engineering	-5000	+5000
		Hexadecimal	8000h	7FFFh

M-7026

Address	Description	Attribute
00001 ~ 00003	Reads the current status of the Digital Output or sets the Digital Output to either active or inactive	R/W
00129 ~ 00131	Reads/sets the Digital Output Safe Value	R/W
00161 ~ 00163	Reads/sets the Digital Output Power-on Value	R/W
00193 ~ 00195	Reads/sets the status of the Digital Input Edge 0: Falling Edge 1: Rising Edge	R/W
00257	Reads/sets the Communication Protocol 0: DCON 1: Modbus RTU	R/W
00259	Reads/sets the Filter Settings 0: 60 Hz Rejection 1: 50 Hz Rejection	R/W
00260	Reads/sets the Host Watchdog Mode 0: The same as for I-7000 series modules 1: Analog Output and Digital Output commands can be used to clear the status of the Host Watchdog timeout	R/W
00261	Enables or disables the Host Watchdog, or reads the status of the Host Watchdog 0: Disable 1: Enable	R/W
00264	Clears the latched Digital Input and Digital Output channels. Write 1 to clear	W
00265	Sets the active Digital Input mode: 0: Normal 1: Inverse	W
00266	Sets the active Digital Output mode: 0: Normal 1: Inverse	W
00269	Reads/sets the Modbus Data Format 0: 2's Complement Hexadecimal 1: Engineering Units	R/W
00270	Reads the status of the Host Watchdog timeout. Write 1 to clear.	R/W
00271	Reads/sets the Analog Input Filter Format 0: Normal 1: Fast	R/W
00272	Loads the factory calibration parameters. Write 1 to load.	W
00273	Reads the Reset status 0: This is NOT the first time the module has been read since being powered on 1: This is the first time the module has been read since being powered on	R

Address	Description	Attribute
00280	Clears the high latch values for all Analog Input channels. Write 1 to clear.	W
00281	Clears the low latch values for all Analog Input channels. Write 1 to clear.	W
00284	Enables or disables calibration, or reads the status of the calibration function 0: Disabled 1: Enabled	R/W
00285	Sets the Analog Input zero calibration. Write 1 to set.	W
00286	Sets the Analog Input span calibration. Write 1 to set.	W
00289 ~ 00294	Reads/clears the status of the low alarm for channels 0 to 5. Write 1 to clear.	R/W
00305 ~ 00310	Reads/clears the status of the high alarm for channels 0 to 5. Write 1 to clear.	R/W
00321 ~ 00326	Enables or disables the Analog Input Alarm, or reads the status of the Analog Input Alarm 0: Disabled 1: Enabled	R/W
00337 ~ 00342	Reads/sets the Analog Input Alarm mode 0: Momentary 1: Latched	R/W
00385 ~ 00390	Clears the high latched Analog Input for channels 0 to 5. Write 1 to clear.	W
00417 ~ 00422	Clears the low latched Analog Input for channels 0 to 5. Write 1 to clear.	W
00513 ~ 00515	Resets the Digital Input counter for channels 0 to 2. Write 1 to reset.	W
10033 ~ 10035	Reads the status of the Digital Input for channels 0 to 2	R
10065 ~ 10067	Reads the status of the high latched Digital Input channels	R
10073 ~ 10075	Reads the status of the high latched Digital Output channels	R
10097~ 10099	Reads the status of the low latched Digital Input channels	R
10105 ~ 10107	Reads the status of the low latched Digital Output channels	R
10225 ~ 10230	Reads whether or not Analog Input channels 0 to 5 are under range	R
10241 ~ 10242	Reads the status of the wire connection for Analog Output channels 0 to 1	R
30001 ~ 30006	Reads the Analog Input value for channels 0 to 5	R
30065 ~ 30066	Reads the current output value for Analog Output channels 0 to 1	R

Address	Description	Attribute
30129 ~ 30131	Reads the Digital Input counter for channels 0 to 2	R
30513 ~ 30518	Reads the high latch value for Analog Input channels 0 to 5	R
30545 ~ 30550	Reads the low latch value for Analog Input channels 0 to 5	R
40033 ~ 40034	Reads/writes the Analog Output value for channels 0 to 1	R/W
40097 ~ 40098	Reads/writes the safe value for Analog Output channels 0 to 1	R/W
40193 ~ 40194	Reads/writes the power-on value for Analog Output channels 0 to 1	R/W
40225 ~ 40230	Reads/writes the Analog Input high alarm value	R/W
40233 ~ 40238	Reads/writes the Analog Input low alarm value	R/W
40257 ~ 40262	Reads/writes the Type Code for Analog Input channels 0 to 5	R/W
40289 ~ 40290	Reads/writes the Analog Output Slew Rate for channels 0 to 1	R/W
40417 ~ 40418	Reads/writes the Type Code for Analog Output channels 0 to 1	R/W
40481	Reads the Firmware Version (high word)	R
40482	Reads the Firmware Version (low word)	R
40483	Reads the Name of the Module (high word)	R
40484	Reads the Name of the Module (low word)	R
40485	Reads the Module address. The valid range is 0x1 to 0xF7	R
40486	Reads/writes the Baud Rate Bits 5:0 Baud Rate Bits 7:6 Reserved	R/W
40488	Reads/writes the Response Delay Time in ms. The valid range is 0 to 30ms.	R/W
40489	Reads/writes the Host Watchdog Timeout value in 0.1s increments. The valid range is 0 to 255.	R/W
40490	Reads the status of the Analog Input channel, or sets the Analog Input channel to enabled or disabled.	R/W
40492	Reads/clears the Host Watchdog Timeout count. Write 0 to clear.	R/W

Note:

The command to load the factory calibration parameters (00272) takes about 3 seconds to be processed. Subsequent commands should not be sent before this time has elapsed.

M-7033

Address	Description	Attribute
30001 40001	Analog input value of channel 0	R
30002 40002	Analog input value of channel 1	R
30003 40003	Analog input value of channel 2	R

M-7000 DIO

Address	Description	Attribute																				
30001 ~ 30016	Counter value of digital input	R																				
40001 ~ 40016	Counter value of digital input	R																				
40481 ^{*1}	Firmware version (low word)	R																				
40482 ^{*1}	Firmware version (high word)	R																				
40483 ^{*1}	Module name (low word)	R																				
40484 ^{*1}	Module name (high word)	R																				
40485 ^{*1}	Module address, valid range: 1 ~ 247	R/W																				
40486 ^{*1}	Bits 5:0 Baud rate, 0x03 ~ 0x0A <table border="1" data-bbox="370 716 1036 867"> <tbody> <tr> <td>Code</td> <td>0x03</td> <td>0x04</td> <td>0x05</td> <td>0x06</td> </tr> <tr> <td>Baud</td> <td>1200</td> <td>2400</td> <td>4800</td> <td>9600</td> </tr> <tr> <td>Code</td> <td>0x07</td> <td>0x08</td> <td>0x09</td> <td>0x0A</td> </tr> <tr> <td>Baud</td> <td>19200</td> <td>38400</td> <td>57600</td> <td>115200</td> </tr> </tbody> </table> Bits 7:6 00: no parity, 1 stop bit 01: no parity, 2 stop bits 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	Code	0x03	0x04	0x05	0x06	Baud	1200	2400	4800	9600	Code	0x07	0x08	0x09	0x0A	Baud	19200	38400	57600	115200	R/W
Code	0x03	0x04	0x05	0x06																		
Baud	1200	2400	4800	9600																		
Code	0x07	0x08	0x09	0x0A																		
Baud	19200	38400	57600	115200																		
40488 ^{*1}	Modbus response delay time in ms, valid range: 0 ~ 30	R/W																				
40489 ^{*1}	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W																				
40492 ^{*1}	Host watchdog timeout count, write 0 to clear	R/W																				
10001 ~ 10016	Digital input value	R																				
00001 ~ 00016	Digital output value	R/W																				
00033 ~ 00048	Digital input value of channel 0 ~ 7	R																				
00065 ~ 00096	High latched values of DIO	R																				
00097 ~ 00128	Low latched values of DIO	R																				
00129 ~ 00144	Safe value of digital output channel	R/W																				
00161 ~ 00176	Power on value of digital output channel	R/W																				
00193 ^{*1} ~ 00208	Counter update trigger edge of digital input channel	R/W																				
00257 ^{*2}	Write 1 to clear latch values	W																				

Address	Description	Attribute
00257 ^{*1}	Protocol, 0: DCON, 1: Modbus RTU	R/W
00258 ^{*1}	0: Modbus RTU, 1: Modbus ASCII	R/W
00260 ^{*1}	Modbus host watchdog mode 0: same as I-7000 1: can use write DO command to clear host watchdog timeout status	R/W
00261 ^{*1}	1: enable, 0: disable host watchdog	R/W
00264 ^{*1}	Write 1 to clear latched DIO	W
00265 ^{*1}	DI active state, 0: normal, 1: inverse	R/W
00266 ^{*1}	DO active state, 0: normal, 1:inverse	R/W
00270 ^{*1}	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273 ^{*1}	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00513 ~ 00528	Write 1 to clear counter value of digital input channel	W
Note: *1: only available with firmware version 200 and later *2: only available with firmware version 199 and earlier		

M-7080

Address	Description	Attribute
40001	Counter/frequency value of channel 0 (low word)	R
40002	Counter/frequency value of channel 0 (high word)	R
40003	Counter/frequency value of channel 1 (low word)	R
40004	Counter/frequency value of channel 1 (high word)	R
40065	Max. value of counter 0 (low word)	R/W
40066	Max. value of counter 0 (high word)	R/W
40067	Max. value of counter 1 (low word)	R/W
40068	Max. value of counter 1 (high word)	R/W
40097	Preset value of counter 0 (low word)	R/W
40098	Preset value of counter 0 (high word)	R/W
40099	Preset value of counter 1 (low word)	R/W
40100	Preset value of counter 1 (high word)	R/W
40161	Low level width threshold in us	R/W
40162	High level width threshold in us	R/W
40163	Low voltage trigger value in 0.1V	R/W
40164	High voltage trigger value in 0.1V	R/W
00001	DO 0	R/W
00002	DO 1	R/W
00065	Overflow flag of counter 0	R
00066	Overflow flag of counter 1	R
00129	Input mode of channel 0, 0:non-isolated, 1:isolated	R/W
00130	Input mode of channel 1, 0:non-isolated, 1:isolated	R/W
00131	0: gate is low active, 1: gate is high active, when gate control is enabled	R/W
00132	Gate control, 0: enable, 1:disable	R/W
00133	Set counter 0 to preset value	W
00134	Set counter 1 to preset value	W
00135	Start(1)/Stop(0) counter 0	R/W
00136	Start(1)/Stop(0) counter 1	R/W
00139	Enable(1)/disable(0) digital filter	R/W
00142	Frequency gate time, 0:0.1second, 1: 1.0second	R/W
00143	LED configuration, 0:ch0, 1: ch1	R/W

Address	Description	Attribute
00145 ^{*1}	Counter mode of channel 0, 1: stop counting on overflow, 0: continuous	R/W
00146 ^{*1}	Counter mode of channel 1, 1: stop counting on overflow, 0: continuous	R/W

*1: only available with firmware version 0A24 and later. In continuous counting mode, the maximum value is ignored. When the count reaches FFFFFFFh, it restarts from 0 and the overflow flag is set. In this mode, the overflow flag can be cleared by writing zero to the overflow flag register. The default mode is stop counting on overflow.

M-7080B

Address	Description	Attribute
40001	Counter/frequency value of channel 0 (low word)	R
40002	Counter/frequency value of channel 0 (high word)	R
40003	Counter/frequency value of channel 1 (low word)	R
40004	Counter/frequency value of channel 1 (high word)	R
40065	Max. value of counter 0 (low word)	R/W
40066	Max. value of counter 0 (high word)	R/W
40067	Max. value of counter 1 (low word)	R/W
40068	Max. value of counter 1 (high word)	R/W
40097	Preset value of counter 0 (low word)	R/W
40098	Preset value of counter 0 (high word)	R/W
40099	Preset value of counter 1 (low word)	R/W
40100	Preset value of counter 1 (high word)	R/W
40161	Low level width threshold in us	R/W
40162	High level width threshold in us	R/W
40163	Low voltage trigger value in 0.1V	R/W
40164	High voltage trigger value in 0.1V	R/W
00001	DO 0	R/W
00002	DO 1	R/W
00065	Overflow flag of counter 0	R
00066	Overflow flag of counter 1	R
00129	Input mode of channel 0, 0:non-isolated, 1:isolated	R/W
00130	Input mode of channel 1, 0:non-isolated, 1:isolated	R/W
00131	0: gate is low active, 1: gate is high active, when gate control is enabled	R/W
00132	Gate control, 0: enable, 1:disable	R/W
00135	Start(1)/Stop(0) counter 0	R/W
00136	Start(1)/Stop(0) counter 1	R/W
00139	Enable(1)/disable(0) digital filter	R/W
00142	Frequency gate time, 0:0.1second, 1: 1.0second	R/W
00143	LED configuration, 0:ch0, 1: ch1	R/W

NOTE: When the type code is 52 and registers 40097 ~ 40100 are set, the current counter values are set to the preset values, too.

M-7084

Address	Description	Attribute
30001 ~ 30016	Counter/frequency value of channel 0 to 7, two registers for each channel	R
40065 ~ 40080	Maximum value for up counter 0 to 7, two registers for each channel	R/W
40097 ~ 40112	Preset value of counter 0 to 7, two registers for each channel	R/W
40161	Frequency measurement timeout in 100ms, 1 ~ 255	R/W
40162	Low-pass filter time for channel 0 and 1 in us, 1 ~ 32767	R/W
40163	Low-pass filter time for channel 2 and 3 in us, 1 ~ 32767	R/W
40164	Low-pass filter time for channel 4 to 7 in us, 1 ~ 32767	R/W
40257 ~ 40264	Type code of channel 0 to 7	R/W
40481	Firmware version (low word)	R
40482	Firmware version (high word)	R
40483	Module name (low word)	R
40484	Module name (high word)	R
40485	Module address, valid range: 1 ~ 247	R/W
40486	Bits 5:0 Baud rate, valid range: 3 ~ 10 Bits 7:6 00: no parity, 1 stop bit 10: even parity, 1 stop bit 11: odd parity, 1 stop bit	R/W
40488	Modbus response delay time in ms, valid range: 0 ~ 30	R/W
40489	Host watchdog timeout value, 0 ~ 255, in 0.1s	R/W
40490	Start/stop counting, bit 0 for ch0, bit 1 for ch1, ..., 00h ~ FFh	R/W
40492	Host watchdog timeout count, write 0 to clear	R/W
00033 ~ 00040	Input status after XOR mask for channel 0 to 7	R
00041 ~ 00048	Input status after low-pass filter for channel 0 to 7	R
00065 ~ 00072	Counter overflow status for channel 0 to 7. Write 1 to clear	R/W

Address	Description	Attribute
00257	Protocol, 0: DCON, 1: Modbus RTU	R/W
00261	1: enable, 0: disable host watchdog	R/W
00269	Data format for frequency type, 0: hex, 1: float	R/W
00270	Host watch dog timeout status, write 1 to clear host watch dog timeout status	R/W
00273	Reset status, 1: first read after powered on, 0: not the first read after powered on	R
00513 ~ 00520	Write 1 to clear counter 0 ~ 7	W
00769 ~ 00776	Enable battery backup for counter 0 to 7	R/W
00801 ~ 00808	Automatic switching between high/low frequency mode for frequency measurement of channel 0 to 7	R/W
00833 ~ 00840	High/low frequency mode for frequency measurement of channel 0 to 7	R/W
00865 ~ 00872	Stop counting on counter overflow for channel 0 to 7	R/W
00897 ~ 00904	Enable low pass filter for channel 0 to 7	R/W
00929 ~ 00936	XOR mask for channel 0 to 7	R/W

M-7088

Address	Description	Attribute
00001 ~ 00008	PWM status 0: Stopped 1: Started	R/W
00065 ~ 00072	Overflow of DI counter, write 1 to clear	R/W
00225 ~ 00232	DI counter status 0: Disabled 1: Enabled	R/W
00257	Protocol 0: DCON 1: Modbus RTU	R/W
00260	Modbus Host Watchdog mode 0: The same as I-7000 series modules 1: The AO and DO command will clear Host Watchdog timeout status	R/W
00261	Host Watchdog 0: Disabled 1: Enabled	R/W
00266	Clear all DI counters	W
00270	Host Watchdog timeout status, write 1 to clear the Host Watchdog timeout status	R/W
00278	DI active 0: Inverse 1: Normal	R/W
00289	Save all PWM configurations into EEPROM, write 1 to save	W
00865 ~ 00872	PWM mode 0: Burst mode 1: Continuous mode	R/W
00897 ~ 00904	PWM trigger status 0: Disabled 1: Enabled	R/W
00929 ~ 00936	PWM trigger start 0: Trigger stop	R/W

	1: Trigger start				
00961 ~ 00968	PWM synchronized	R/W			
10033 ~ 10040	DI status	R			
10273	Reset status 0: Not the first read after power-on 1: First read after power-on	R			
30001 ~ 30016	DI count 30001=low word of channel 0, 30002=high word of channel 0, etc.	R			
30769 ~ 30776	PWM burst count Condition: PWM mode = burst, PWM status = stop	R			
30481	Firmware version (low word)	R			
30482	Firmware version (high word)	R			
30483	Module name (low word)	R			
30484	Module name (high word)	R			
40065 ~ 40080	Max DI count value 40065=low word of channel 0, 40066=high word of channel 0, etc.	R/W			
40097 ~ 40112	Preset value of DI count 40097=low word of channel 0, 40104=high word of channel 0, etc.	R/W			
40485	The module address, valid range: 1 ~ 247	R/W			
40705 ~ 40712	PWM duty cycle	R/W			
40737 ~ 40752	PWM frequency 40737=low word of channel 0, 40738=high word of channel 0, etc.	R/W			
40801 ~ 40808	PWM burst steps	R/W			
40486	Bits 5:0 Baud Rate, 0x03 ~ 0x0A	R/W			
	Code	0x03	0x04	0x05	0x06

	Baud	1200	2400	4800	9600		
	Code	0x07	0x08	0x09	0x0A		
	Baud	19200	38400	57600	115200		
	Bits 7:6 00: No parity, 1 stop bit 01: No parity, 2 stop bits 10: Even parity, 1 stop bit 11: Odd parity, 1 stop bit						
40488	Modbus response delay time in ms, valid range: 0 ~ 30						R/W
40489	Host Watchdog timeout value, 0 ~ 255, in 0.1s						R/W
40495	LED configuration						R/W
40496	LED data for host mode						R/W
40498	Power-down count						R/W