

M-7022 Module Release Note

The functionality of the M-7022 is the same as the I-7022. The M-7022 supports both the DCON and Modbus RTU protocols. The Modbus ASCII protocol is supported by firmware version B102 and later. Only one protocol is supported at a time and the default protocol is the Modbus RTU.

Default Settings

Default settings for M-7022 are:

- Protocol: Modbus RTU
- Module Address: 01
- Baud Rate: 9600 bps
- Type Code: 2, 0 ~ 10V

INIT Mode

When the module is powered on with the INIT terminal connected to the GND terminal, the module is in INIT mode and the settings are:

- Protocol: DCON
- Module Address: 00
- Baud Rate: 9600 bps
- No checksum

Address Mapping

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

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The following registers are supported by firmware version B102 and later.

Address	Description	Attribute
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

For other Modbus commands please refer to Chapter 3 of the manual at

http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7017-18-19_english.pdf

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Output Types

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.

Notes:

1. This release note is valid only for the M-7022 module.
2. The terminal assignment and the wiring are the same as those of the I-7022.
3. The user's manual and the software utility can be downloaded from the ICP DAS web site <http://www.icpdas.com>.

DOS Software Installation:

- CD \NAPDOS\ 7000\NAP7000S
(→ for 7000 and 87K modules)
Install

Windows Software Installation:

- autorun the companion CD
- Toolkits(Softwares)/Manual
- 7000/8000 series toolkits
- Install 7000 Utility for Windows95/98/2000/XP/NT or other

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Technical Service:

- Email problem report to service@icpdas.com if you have any questions.

Problem Report Items:

When reporting problems, please include the following information:

- 1) Is the problem reproducible? If yes, how to reproduce?
- 2) What kind and version of platform you are using?
For example, Windows 98 SE, Windows ME, Windows XP Professional, etc.
- 3) What kind of our products that you are using?
Please see the product's manual .
- 4) If a dialog box with an error message was displayed, please include the full text of the dialog box, including the text in the title bar.
- 5) If the problem involves other programs or hardware devices, what devices or version of the failing programs that you are using?
- 6) Other comments relative to this problem or any suggestions will be welcome.

After we have received your comments, we will take about two business days to test the problems that you described. And then reply to you as soon as possible. Please resend the problem report if you do not get response from us in three days and please keep contact with us.