

Analog Output Modules

R60DA4
4-channel (voltage or current)

R60DAV8
8-channel (voltage)

R60DAI8
8-channel (current)

R60DA8-G
8-channel (voltage or current),
channel isolated

R60DA16-G
16-channel (voltage or current),
channel isolated

R60DAH4
4-channel (voltage or current)

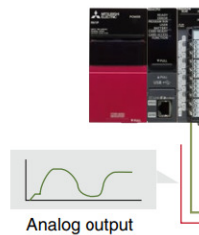
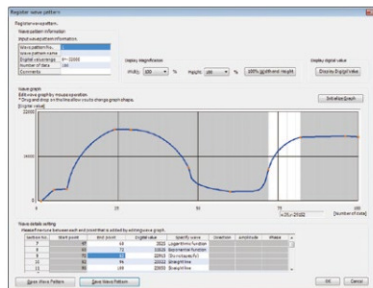
RY40PT5B-AS
16 points 24 V DC, 0.5 A
SIL2 analog control output

MELSEC iQ-R Series analog output modules reliably deliver accurate analog values to points where high-resolution digital inputs are required. A variety of modules (voltage, current, or mixed) are available to cover a wide range of application requirements, such as high-speed drive control or variable-speed control of the pressure applied to materials being fed into some kind of forming mechanism.

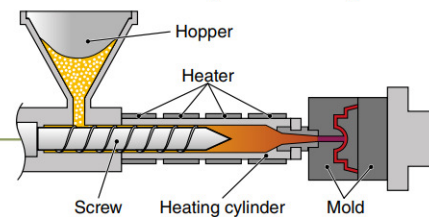
Faster, smoother predefined wave signal output

The analog output module enables pre-registration of waveforms easily using MELSOFT GX Works3, realizing a smoother continuous output that closely matches the precision required for the application, such as torque control for a press or injection molding machine. Registering the waveform in the module is simple and easy, and does not require a dedicated analog output program, such as for continuous line control, further reducing programming time.

GX Works3 wave output data setup



Pressure control of injection molding



Shift operation and scaling without programs

Shift operation and scaling can be used without creating programs; they can be simply set on parameters. This simple setting minimizes program development cost as well as the program size.

Analog output module specifications

Item	R60DA4	R60DAV8	R60DAI8	R60DA8-G	R60DA16-G
Number of analog output points (ch)	4	8	8	8	16
Accuracy					
Ambient temperature 25 ±5°C	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%
Ambient temperature 0...55°C	±0.3%	±0.3%	±0.3%	-	-
Temperature coefficient	-	-	-	±50 ppm/°C	±50 ppm/°C
Common					
Conversion speed (ch)	80 μs	80 μs	80 μs	1 ms	1 ms
Channel isolation	-	-	-	Transformer isolation	Transformer isolation
Output short-circuit protection	●	●	●	●	●
External supply power (V DC)	24	24	24	-	-
SIL 2-compliant	-	-	-	●*1	-
Voltage output					
Digital input value	-32000...32000	-32000...32000	-	-32000...32000	-32000...32000
Analog output voltage (V DC)	-10...10	-10...10	-	-12...12	-12...12
Current output					
Digital input value	0...32000	-	0...32000	0...32000	0...32000
Analog output current (mA DC)	0...20	-	0...20	0...20	0...20
Function					
Firmware update*2	●	●	●	-	-
External interface*3	-	-	-	-	-
18-point screw terminal block	●	●	●	-	-
40-pin connector	-	-	-	●	● (2x)

System configuration

CPU

I/O

High-speed analog output module specifications

Item	R60DAH4
Number of channels	4
Accuracy	
Ambient temperature 25 ±5°C	±0.1%
Ambient temperature 0...55°C	±0.3%
Output specifications	
Operation mode	High-speed output mode (conversion speed: 1 μs/CH)
	Normal output mode (conversion speed: 10 μs/CH)
	Wave output mode (conversion speed: 20 μs/CH)
Voltage output	
Digital input value	-32000...32000
Analog output voltage (V DC)	-10...10
Current output	
Digital input value	0...32000
Analog output current (mA DC)	0...20
Function	
Firmware update*2	●
External interface*3	-
18-point screw terminal block	●

Analog

Motion, Positioning, High-speed Counter, Channel isolated pulse input

Network

SIL2 analog control output module specifications

Item	RY40PT5B-AS
Number of output points	16
Rated load voltage (V DC)	24
Max. load current (A/point)	0.5
Response time (ms)	≤ 1.5
Control cycle time (ms)	2
Common terminal arrangement (points/common)	16
External interface*3	
18-point screw terminal block	●

Advanced information

Technology

Software

*1. When used together with a SIL 2 redundant control system (SIL 2 is supported in the module firmware version of "02" or later).

*2. For more information, please refer to the relevant product manual.

*3. For more information about external interface (for applicable options, please refer to the relevant product manual), please refer to the options list on page 115.