OMRON

Model

CQM1-DA022

Analog output unit

INSTRUCTION SHEET

Thank you for purchasing an OMRON product. Read this thoroughly and familiarize yourself with the functions and characteristics of the product before using it. Keep this instruction sheet for future reference.

1614885-1A

■ Indicators

Name	Color	Function
RDY	Green	Lit when unit is operating normally

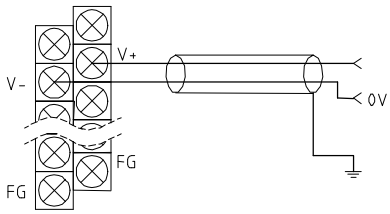
■ Terminals

Terminal	Name	Function
A1	I1+	CH1 positive current output
B1	I1-	CH1 negative current output
A2	V1+	CH1 positive voltage output
B2	V1-	CH1 negative voltage output
A3	I2+	CH2 positive current output
B3	I2-	CH2 negative current output
A4	V2+	CH2 positive voltage output
B4	V2-	CH2 negative voltage output
A5	nc	
B5	nc	
A6	nc	
B6	nc	
A7	nc	
B7	nc	
A8	reserved	
B8	reserved	
A9	FG	
B9	FG	

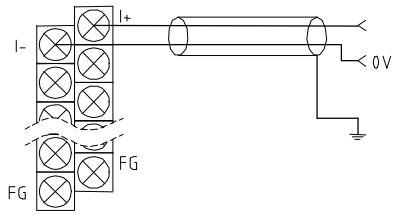
■ Analog Output Connections

- Connect a two-conductor, shielded twisted-pair cable to the Analog Output Unit as shown in the following illustrations.
- Do not wire power lines or other I/O lines alongside the two-conductor, shielded twisted-pair wire.
- The two-conductor, twisted-pair shielded wire should be grounded on the signal reception side.

■ Voltage Output :



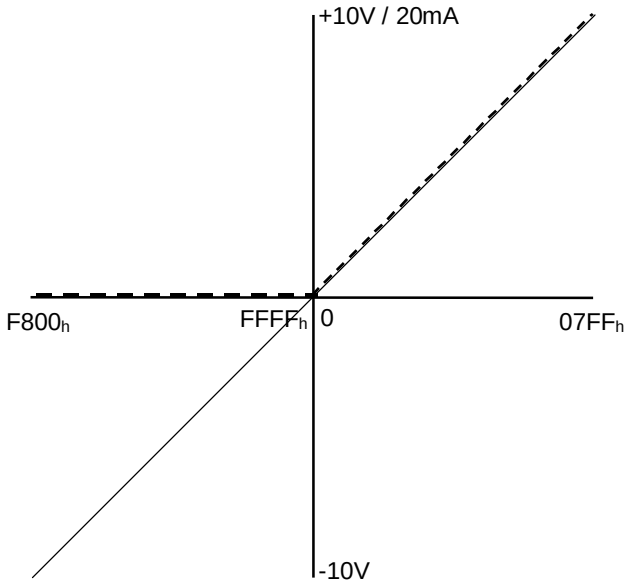
■ Current Output :



■ Specifications

Nr of analog outputs	2	
Output range	Voltage Current	-10 V to +10 V 0 mA to 20 mA
Load impedance	Voltage Current	> 2 kΩ < 350 Ω
Resolution	Voltage Current	12 bit 11 bit
Accuracy	25 ° C 0 to 55 ° C	0.5 % 1.0 %
Conversion speed	0.5 ms / 2 channels	
Insulation	500 V AC between outputs and PLC bus	
Current consumption	340 mA at 5 V DC	
Total output current	50 mA	
Power supply	internal DC/DC converter	

■ Graph input vs. output



—— = Voltage (from –10 to +10V)
- - - - = Current (from 0 to 20mA)

input value is 2's complement hexadecimal

■ IR bit allocation

data is presented in 2's complement

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Sign					d10	d9	d8	d7	d6	d5	d4	d3	d2	d1	d0

Note : Specifications subject to change without notice.

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