

LSAOMO1-1 AO module

LS communication Analog outputs : 8 4 to 20 mA/0 to 20 mA

Summary



*Number of outputs	:	8 (Channel individual isolation)
* Output range	:	4 to 20 mA/0 to 20 mA (Selectable)
*Resolution	:	16 bits
* Module ambient temperature	:	-5 to 60°C
*Isolation	:	Trans isolation



Mitsubishi Power is a power solutions brand of Mitsubishi Heavy Industries.

MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP

CGS-S5202-E-04 (2023.07.31) SL:1 ECT:N/A



LSAOMO1 – 1 AO module LS communication Analog outputs : 8 4 to 20 mA/0 to 20 mA

■ Specifications

ITEM		SPECIFICATION	
	Number of channels	8 (Channel individual isolation)	
Output Minimum Maximum Switching	Range	4 to 20 mA/0 to 20 mA (Switchable by EMS setting)(Full Scale)	
	Resolution	16 bits	
	Minimum external impedance	24.9 Ω	
	Maximum external impedance	750 Ω	
	Switching time of the	2 ms	
	redundant configuration		
Data refresh cycle		5 ms /All channels	
Operation cycle usable in DPS		10 msec or more	
Absolute accuracy	@25°C	±0.1% FS	
Temperature drift	@5 to 60°C	Less than $\pm 100 \text{ ppm/°C}$ (relative to full-scale)	
Input filter		Software digital filter (Channel individual)	
Dielectric strength		AC 500 V input terminal - between PE	
		Between input channels	
Communication with IOA	Communicaton method	LVDS	
	Communication speed	100 Mbps	
HART communication compliant	Communicaton method	HART communication (superimposed on 4 to 20 mA signal)	
Between actuators Communication specification	Communication speed	1200 bps	
Self-diagnostic functions		Power voltage check (24 V, 3.3 V, 1.2 V) Clock check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA)	
		Read-back error check (Presence or absence can be set by configuration) CRC check (FPGA) Tuning check	
		ADC abnormal check	
Detective		I/O signal range check (Range over, Range under)	
		Disconnection detection (Settable of possible/none by the configuration)	
Protection (Power supply protection)	(Power supply protection)	Overvoltage protection	
		Overcurrent protection	
Indicator	Display LED	4: RUN (Run) / STS (Status) / NSA (Network status A) / NSB (Network status B)	
Insulation method		Transformer insulation	
Hot swap			
Power supply		DC 24 V \pm 20% (The voltage supplied from the backplane)	
Environmental conditions	Module ambient temperature	(Operating) -5 to 60°C	
		(Storage) -40 to 85°C	
	Module ambient humidity	(Operating / Storage) Less than 95% RH (No condensation)	
Vibration		3.5 mm @5 to 8.4 Hz	
		1 G @8.4 to 150 Hz	
Shock		15 G 11 ms	
Current consumption		Less than 288 mA	
Weight		0.11 kg	
Dimensions		62 mm (D) x 94 mm (H) x 46 mm (W) (Except projection)	
Standard/Directive		EN 61131-2:2007, RoHS	

About compliant module type

For compliant modules of this product, please refer to "Compliant backplane list (CGS-S9901-E-XX)".

For compliant modules of this product, please refer to "Compliant accessory connector list (CGS-S9902-E-XX)".

DIASYS Netmation[®] **DIASYS** Netmation 4S=

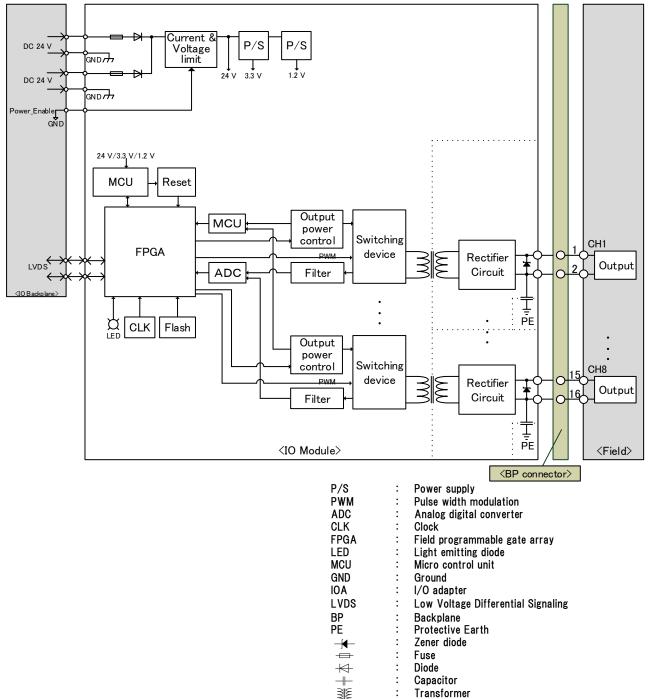
Mitsubishi Power is a power solutions brand of Mitsubishi Heavy Industries.

MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP



LSAOMO1-1 AO module LS communication Analog outputs : 8 4 to 20 mA/0 to 20 mA

■Block diagram



When using, please read the instruction manual attached to the product carefully and use it properly.

This catalog may not be distributed or reproduced in whole or in part without permission.

Please be aware that due to product improvements and modifications, the product description in this catalog may differ in certain respects from the actual product.

DIASYS Netmation/DIASYS Netmation4S is a registered trademark of Mitsubishi Heavy Industries, Ltd.

The service names and product names of other companies described in this catalog are the trademarks or registered trademarks of each company.



Mitsubishi Power is a power solutions brand of Mitsubishi Heavy Industries.

MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP