

LSAOMO1-2 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



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■ Specifications

ITEM		SPECIFICATION	
	Number of channels	8 (Channel individual isolation)	
Range Resolution Output Minimum external im		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	1	Software digital filter (Channel individual)	
Dielectric strength		AC 500 V input terminal - between PE	
		Between input channels	
	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		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)	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		Possible	
Power supply		DC 24 V \pm 20% (The voltage supplied from the backplane)	
Environmental conditions Module ambient temperature		(Operating) -5 to 60°C	
	Module ambient temperature	(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		299 mA	
Weight		0.13kg	
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)".

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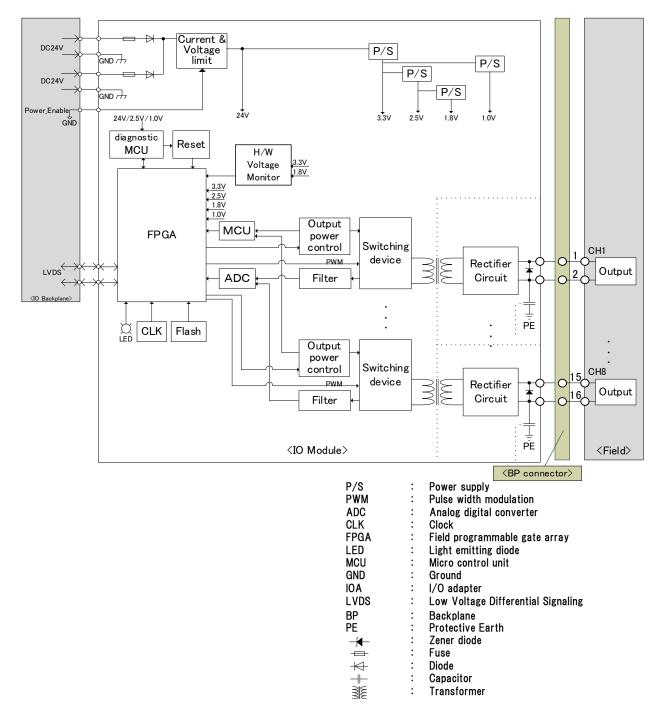
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■Block diagram



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

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