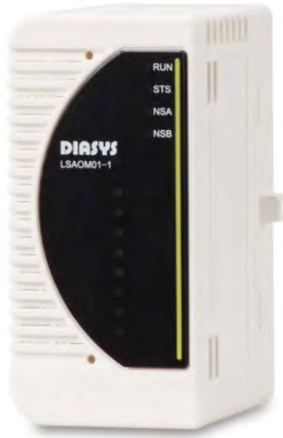


# LSAOM01-1 AO module

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

## ■ Summary



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

# LSAOM01-1 AO module

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

## ■ Specifications

ITEM		SPECIFICATION
Output	Number of channels	8 (Channel individual isolation )
	Range	4 to 20mA/0 to 20mA (Switchable by EMS setting)(Full Scale)
	Resolution	16bits
	Minimum external impedance	24.9 Ω
	Maximum external impedance	750 Ω
	Switching time of the redundant configuration	2ms
Data refresh cycle		5ms /All channels
Operation cycle usable in DPS		10 msec or more
Absolute accuracy	@25°C	±0.1%F.S.
Temperature drift	@5 to 60°C	Less than ±100ppm/°C (relative to full-scale)
Input filter		Software digital filter (Channel individual)
Dielectric strength		AC500V input terminal – between PE Between input channels
Communication with IOA	Communication method	LVDS
	Communication speed	100Mbps
HART communication compliant Between actuators Communication specification	Communication method	HART communication (superimposed on 4 to 20mA signal)
	Communication speed	1200bps
Self-diagnostic functions		Power voltage check (24V, 3.3V, 1.2V) Clock check (FPGA-MCU for diagnosis, MCU for diagnosis –FPGA) Read-back error check CRC check (FPGA) Tuning check
Detective		ADC abnormal check 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		DC24V ±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	Less than 95%RH (No condensation)
Vibration		3.5mm @5 to 8.4Hz 1G @8.4 to 150Hz
Shock		15G 11ms
Current consumption		Less than 288mA
Weight		0.11kg
Dimensions		62mmD x 94mmH x 46mmW (Except projection)
Standard/Directive		IEC61131-2 : 2007, RoHS

\*About compliant module type

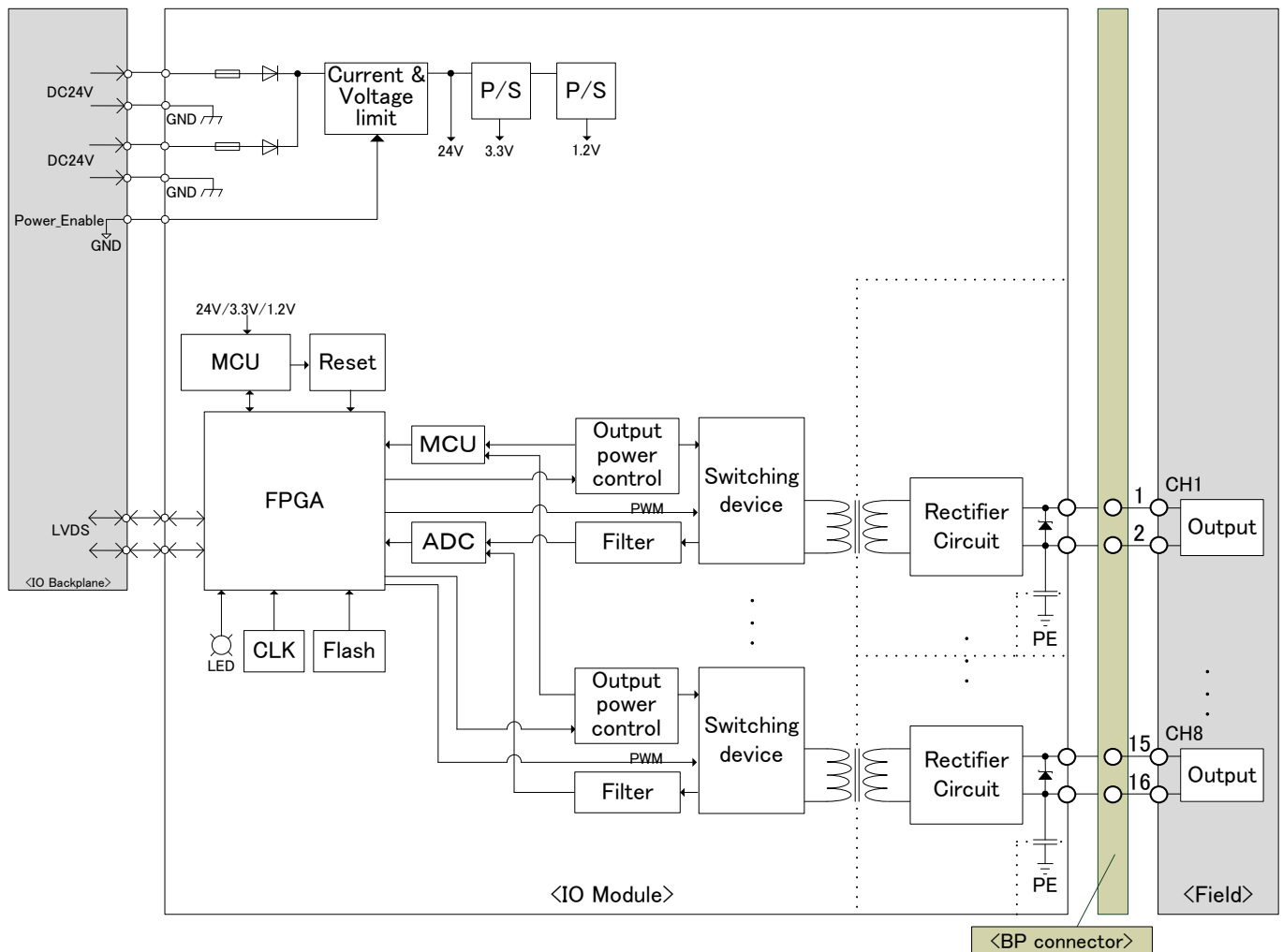
For compliant modules of this product, please refer to “ Compliant backplane list (CGS-S9901-E-XX) ”.

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

# LSAOM01-1 AO module

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

## Block diagram



P/S	: Power supply
PWM	: Pulse width modulation
ADC	: Analog digital converter
CLK	: Clock
FPGA	: Field programmable gate array
LED	: Light emitting diode
MCU	: Micro control unit
GND	: Ground
IOA	: I/O adapter
LVDS	: Low Voltage Differential Signaling
BP	: Backplane
PE	: Protective Earth
	: Zener diode
	: Fuse
	: Diode
	: Capacitor
	: Transformer

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

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