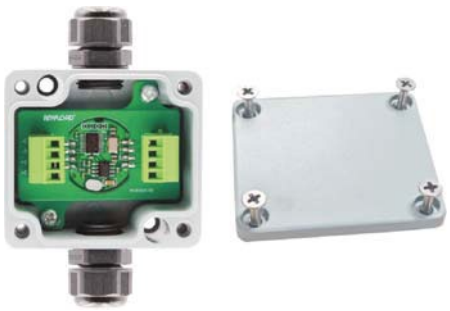
Digital Amplifier, Aluminum Enclosure

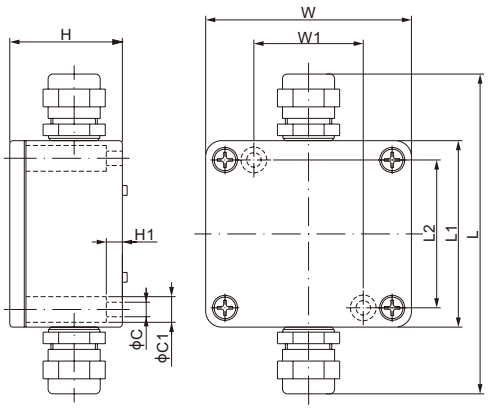


Caution: *Device is not hot-swap safe. Inrush current must be limited to ≤50 mA to prevent chip damage.*

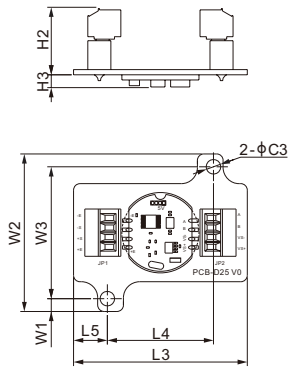
Features:

- One input port, can connect directly to 1 x 350 Ω load cell, or max 4 x 350 Ω (or higher resistance) load cells through a junction box
- 24-bit A/D Converter, high speed processor
- Internal digital filter and strong anti-interference ability
- Contains ability for 9 point linear calibration
- Applied to all kinds of strain gauge bridge-type load cell, such as , tension, compression, torque and so on
- IP66 Rated (A1A-D25C)

With Aluminum Enclosure



Without Aluminum Enclosure



DIMENSIONS

	C	C1	H	H1	L	L1	L2	W	W1	C3	H2	H3	L3	L4	L5	W2	W3	W4
inches	0.18	0.33	1.38	0.20	3.94	2.28	1.81	2.52	1.34	0.18	0.83	0.16	2.13	1.30	0.41	1.93	1.61	0.16
mm	4.5	8.5	35.0	5.0	100.0	58.0	46.0	64.0	34.0	4.5	21.0	4.0	54.0	33.0	10.5	49.0	41.0	4.0

SPECIFICATIONS

Load Cell Type	All strain gage type	**Temperature Coefficient**	≤100 ppm / °C
Power Supply	9 - 24 V DC	**Non-linearity**	≤0.01%
Power Consumption	0.36 W @12 V DC	**Resolution**	>1000000
Input Range	-3.9 to +3.9 mV/V	**Output Signal**	RS-232 (A1A-DM2507C) RS-485 (A1A-DM2508C) CAN Bus (A1A-DC2508C)
Working Temperature	-22°F - 122°F / -30°C - 50°C		
Excitation Voltage To Load Cell	5 V DC		

PART NUMBER

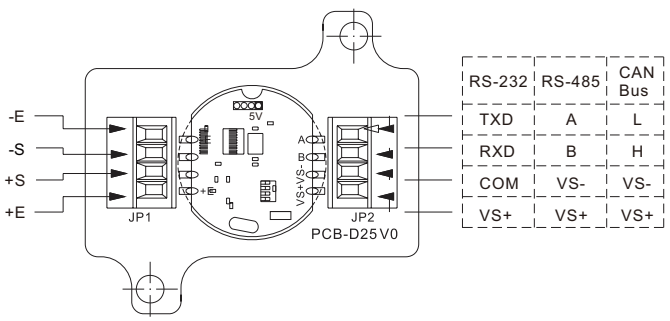
Without Aluminum Enclosure

Part No.	Output Signal	Protocol	Weight Approx.(kg)
DGB-DM2507C	RS-232	Modbus RTU	0.04
DGB-DM2508C	RS-485	Modbus RTU	0.04
DGB-DC2508C	CAN Bus	CANOpen	0.04
DGB-DC2508-J1939C	CAN Bus	CAN J1939	0.04

With Aluminum Enclosure

Part No.	Output Signal	Protocol	Weight Approx.(kg)
A1A-DM2507C	RS-232	Modbus RTU	0.15
A1A-DM2508C	RS-485	Modbus RTU	0.15
A1A-DC2508C	CAN Bus	CANOpen	0.15
A1A-DC2508-J1939C	CAN Bus	CAN J1939	0.15

CONNECTION DIAGRAM



AMPLIFIERS