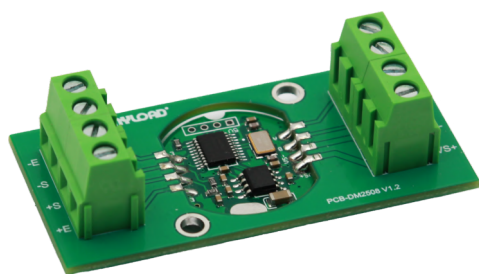


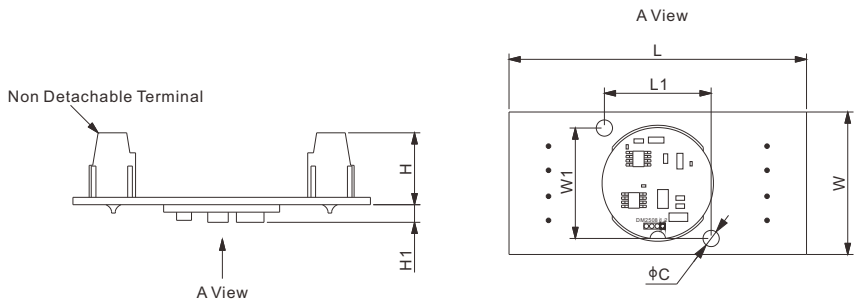
Digiboard, Digital Amplifier



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
- Can perform up to 9 point linear calibration
- Applied to all kinds of strain gauge bridge-type load cell, such as, tension, compression, torque and so on
- Reverse polarity protection
- The chip is 24.6 mm in diameter and can be embedded within load cells, making the load cells have built-in analog signal amplification
- Software is used for calibration
- DGB-D Chips can be integrated into load cells for built-in digital signal conditioning/transmission (special order required)



DIMENSIONS

	C	H	H1	L	L1	W	W1
inches	0.14	0.61	0.16	2.52	0.91	1.21	0.94
mm	3.5	15.5	4.0	64.1	23.0	30.7	23.8

SPECIFICATIONS

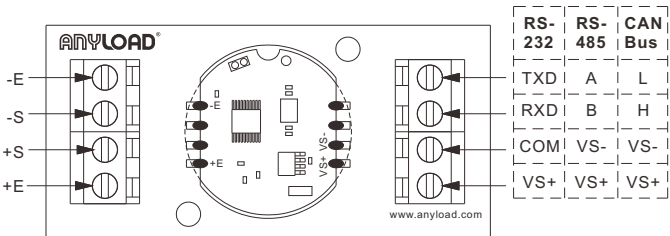
Load Cell Type	All strain gage type	Non-linearity	$\leq 0.01\%$
Power Supply*	9 - 24 V DC	Temperature Coefficient	≤ 100 ppm / $^{\circ}\text{C}$
Power Consumption	0.36 W @ 12 V DC	Output Signal	RS-232 (DGB-DM2507B)
Input Range	-3.9 to +3.9 mV/V		RS-485 (DGB-DM2508B)
Working Temperature	-22 $^{\circ}\text{F}$ - 122 $^{\circ}\text{F}$ / -30 $^{\circ}\text{C}$ - 50 $^{\circ}\text{C}$		CAN Bus (DGB-DC2508B)
Excitation Voltage To Load Cell	5 V DC		CAN Bus, CAN J1939 (DGB-DC2508-J1939B)

* **Note:** When using four 350 Ω load cells with a 24 VDC excitation supply, ensure sufficient ventilation. Operation in sealed enclosures or high ambient temperatures may cause excessive internal heating and degrade performance.

PART NUMBER

Part No.	Output Signal	Protocol	Shipping Weight Approx. (lb/kg)
DGB-DM2507B.....	RS-232.....	Modbus RTU.....	0.09/0.04
DGB-DM2508B.....	RS-485.....	Modbus RTU.....	0.09/0.04
DGB-DC2508B.....	CAN Bus.....	CANOpen.....	0.09/0.04
DGB-DC2508-J1939B...	CAN Bus.....	CAN J1939.....	0.09/0.04

CONNECTION DIAGRAM



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