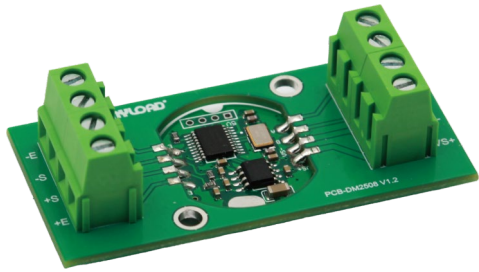


Digiboard, Digital Amplifier

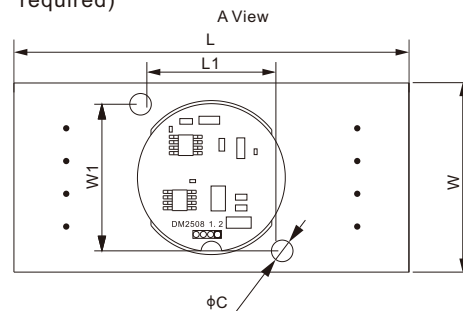
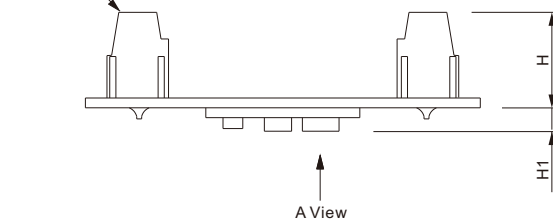


Caution: Device is not hot-swap safe. Inrush current must be limited to ≤ 50 mA to prevent chip damage.

Features:

- One input port, can connect directly to $1 \times 350 \Omega$ load cell, or max $4 \times 350 \Omega$ (or higher resistance) load cells through a junction box
- 24bit 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)

Non Detachable Terminal



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

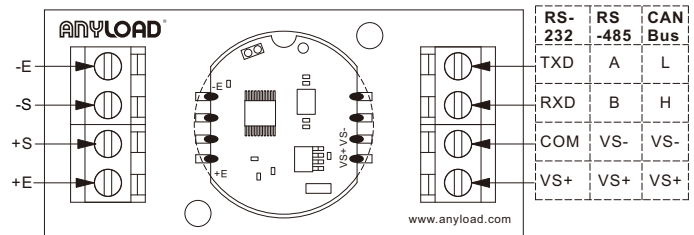
SPECIFICATIONS

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

PART NUMBER

Part No.	Output Signal	Protocol	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

CONNECTION DIAGRAM



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