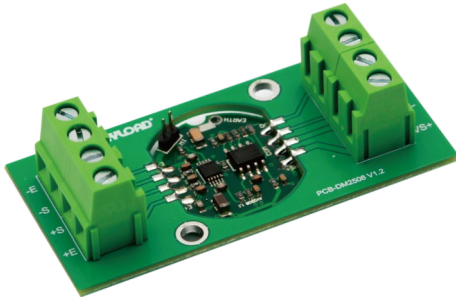


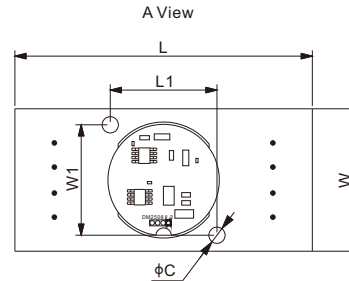
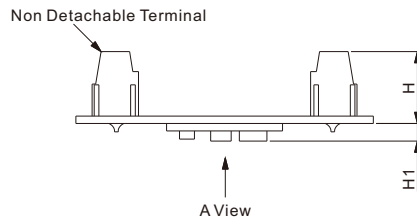
Digiboard, Digital Amplifier



**Caution:** Device is not hot-swap safe. Inrush current must be limited to  $\leq 50$  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

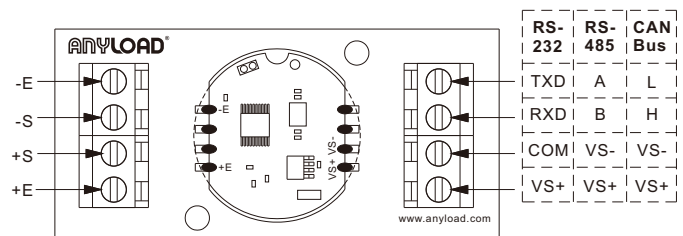
**SPECIFICATIONS**

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

**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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