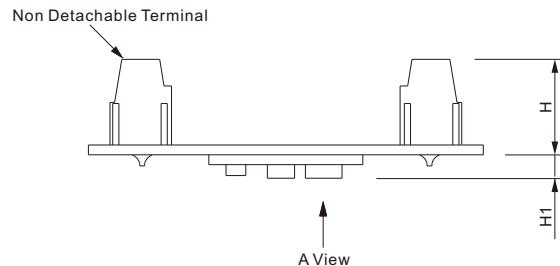


Digiboard, Digital Amplifier

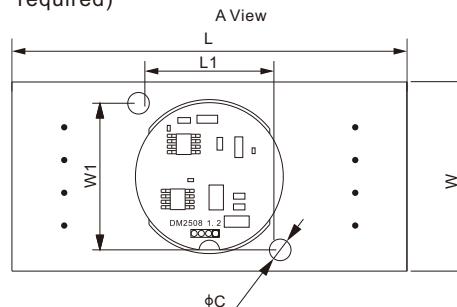


Caution: Device is not hot-swap safe. Inrush current must be limited to ≤ 50 mA to prevent chip damage.



Features:

- One input port, can connect directly to 1x350 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 |
| mm | 3.5 | 15.5 | 4.0 | 64.1 | 23.0 | 30.7 |

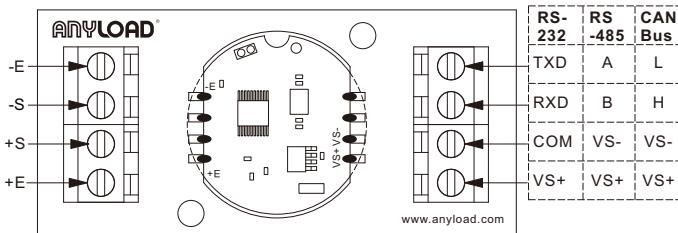
SPECIFICATIONS

| | | | |
|---------------------------------|--|-------------------------|---|
| 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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