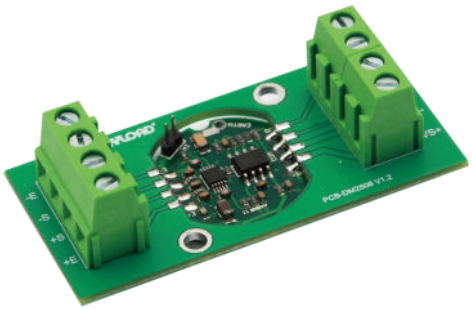
DGB-A

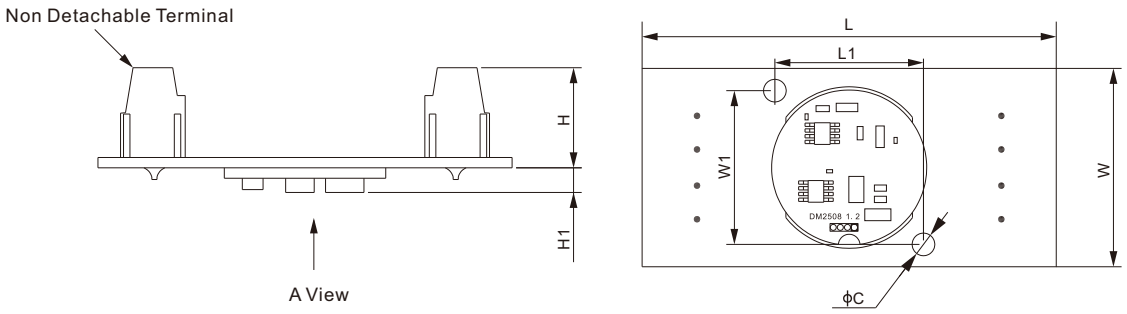
Digiboard,Analogue Amplifier



Calibration tool available, to be ordered separately;

Features:

- One input port, can connect directly to 1 x 350 load cell @ 12 V DC power, or 2 x 350 load cells @ 24 V DC power
- Input range: 0.2 - 10.0 mV/V
- 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-A Chips can be embedded into load cells for built-in analog signal amplification (special order required)
- Designed for all strain gauge sensors including tension, compression, torque, and pressure load cells
- PC Software available for calibration, operations, and data acquisition



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

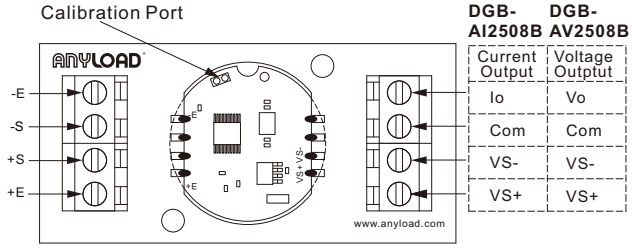
SPECIFICATIONS

Load Cell Type	All strain gage type	**Non-linearity**	⩽0.02%
Power Supply and Consumption	12 - 24 V DC	**Temperature Coefficient**	⩽100 ppm / °C
Input Range	0.2 - 10.0 mV/V	**Output Signal**	0 - 20 mA; 4 - 20 mA; or 0 - 5 V DC; 0 - 10 V DC; -5 - 5 V DC
Working Temperature	-22°F - 122°F / -30°C - 50°C		
Excitation voltage to load cell	5 V DC		

PART NUMBER

Part No.	Output Signal	Weight Approx.(lb/kg)
DGB-AI2508B	0 - 20; 4 - 20mA	0.09/0.04
DGB-AV2508B	0 - 5;0 - 10;-5 - 5V DC	0.09/0.04

CONNECTION DIAGRAM



	DGB-AI2508B	DGB-AV2508B
	Current Output	Voltage Outputut
-E	Io	Vo
-S	Com	Com
+S	VS-	VS-
+E	VS+	VS+

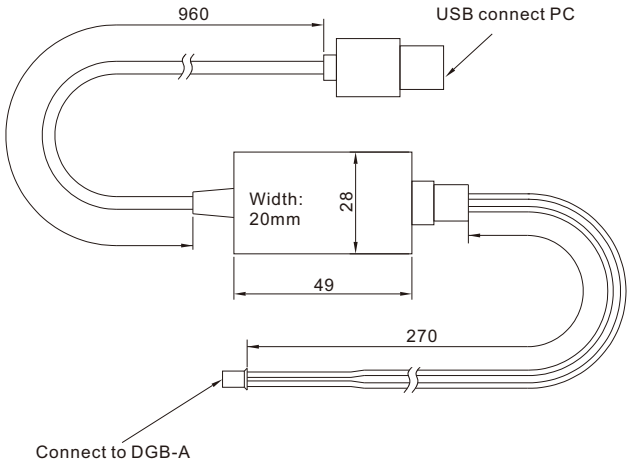
DGB-A

Calibration tool

Features:

- Interface: 2-wire UART
- Signal type: TX / RX (or bidirectional single-line, if applicable)
- Voltage levels: 5V TTL
- Power: Bus-powered via USB (if applicable)
- Connector types: USB to PC, 2-wire UART to DGB-A
- Supported products:DGB-AI2508,DGB-AV2508

Optional, to be ordered separately, Part Number: DGB-WIRE-25A



AMPLIFIERS