

QUAD TRON, INC.

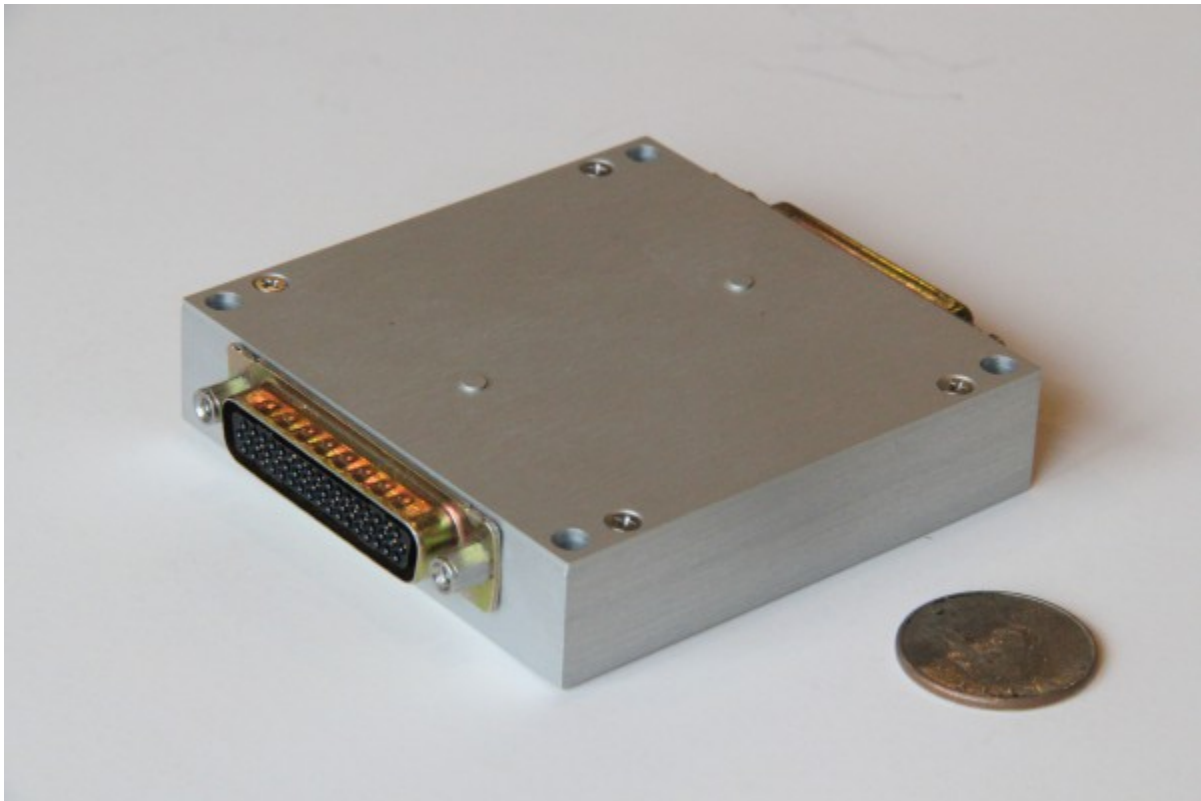
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12 CHANNEL BRIDGE COMPLETION BOX 3 WIRE, $\frac{1}{4}$ BRIDGE TOPOLOGY MODEL BRC12

The BRC12 implements 12 channels of bridge completion in a 3 wire, $\frac{1}{4}$ bridge configuration (see figure 1).

The unit provides both an input and output connector (transducer side connector and data acquisition side connector) to simplify wiring.



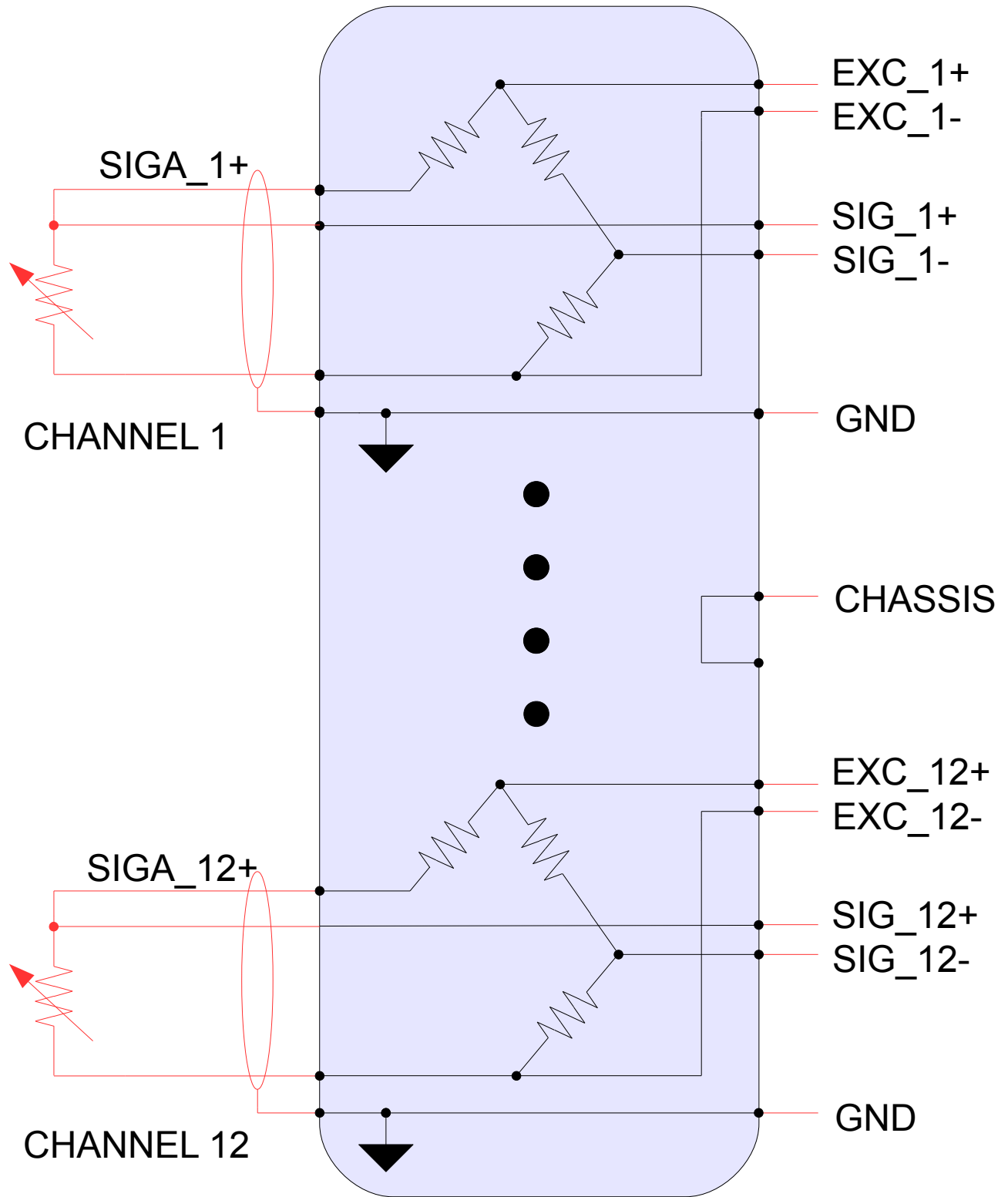


FIGURE 1

3 WIRE, QUARTER BRIDGE WIRING

Electrical Specifications:

Standard Resistor Values: 120 ohms, 350 ohms, 1k ohms, 10k ohms *

Standard Resistor Characteristics: 0.5 watt, 0.1% tolerance, 25 ppm *

* Note: Other resistor values and characteristics may be specified.

Environmental:

Operating Temperature:	-40°C to +85°C
Storage Temperature:	-55°C to +125°C
Humidity:	Relative humidity of 85% for two hours at 65°C.
Altitude:	Unlimited
Vibration:	20g's RMS from 5 to 2000Hz in each major axis.
Acceleration:	Constant acceleration of 100g's in each axis.
Shock:	100g's for 10m second in each major axis.

Mechanical:

Size:	inches	mm
Length	3.00	76.2
Width	3.00	76.2
Height	0.7	17.78
Weight:	5 OZ	

PINOUT:

J1: Input, Transducer Side: CANNON 2DB52PBR

J2: Output Signal Side: CANNON 2DB52SBR

<u>J1: Input</u>		<u>J2: Output</u>	
1	SIGA_1+	1	EXC_1+
2	SIG_1+	2	EXC_1-
3	EXC_1-	3	SIG_1+
4	GND	4	SIG_1-
5	SIGA_2+	5	EXC_2+
6	SIG_2+	6	EXC_2-
7	EXC_2-	7	SIG_2+
8	GND	8	SIG_2-
9	SIGA_3+	9	EXC_3+
10	SIG_3+	10	EXC_3-
11	EXC_3-	11	SIG_3+
12	GND	12	SIG_3-
13	SIGA_4+	13	EXC_4+
14	SIG_4+	14	EXC_4-
15	EXC_4-	15	SIG_4+
16	GND	16	SIG_4-
17	GND	17	GND
18	SIGA_5+	18	EXC_5+
19	SIG_5+	19	EXC_5-
20	EXC_5-	20	SIG_5+
21	GND	21	SIG_5-
22	SIGA_6+	22	EXC_6+
23	SIG_6+	23	EXC_6-
24	EXC_6-	24	SIG_6+
25	GND	25	SIG_6-
26	SIGA_7+	26	EXC_7+
27	SIG_7+	27	EXC_7-
28	EXC_7-	28	SIG_7+
29	GND	29	SIG_7-
30	SIGA_8+	30	EXC_8+
31	SIG_8+	31	EXC_8-
32	EXC_8-	32	SIG_8+
33	GND	33	SIG_8-

PINOUT CONTINUED:

J1: Input

34	GND
35	GND
36	SIGA_9+
37	SIG_9+
38	EXC_9-
39	GND
40	SIGA_10+
41	SIG_10+
42	EXC_10-
43	GND
44	SIGA_11+
45	SIG_11+
46	EXC_11-
47	GND
48	SIGA_12+
49	SIG_12+
50	EXC_12-
51	GND
52	GND

J2: Output

34	GND
35	GND
36	EXC_9+
37	EXC_9-
38	SIG_9+
39	SIG_9-
40	EXC_10+
41	EXC_10-
42	SIG_10+
43	SIG_10-
44	EXC_11+
45	EXC_11-
46	SIG_11+
47	SIG_11-
48	EXC_12+
49	EXC_12-
50	SIG_12+
51	SIG_12-
52	CHASSIS

