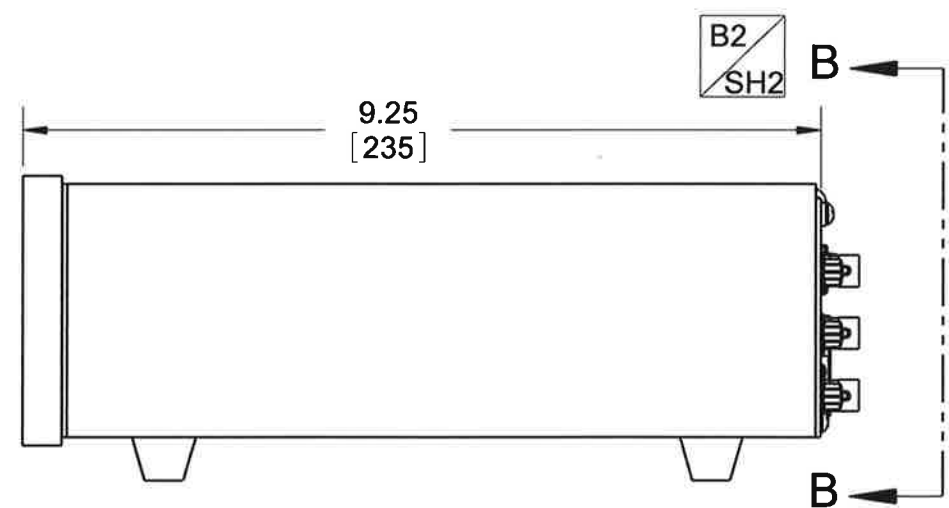
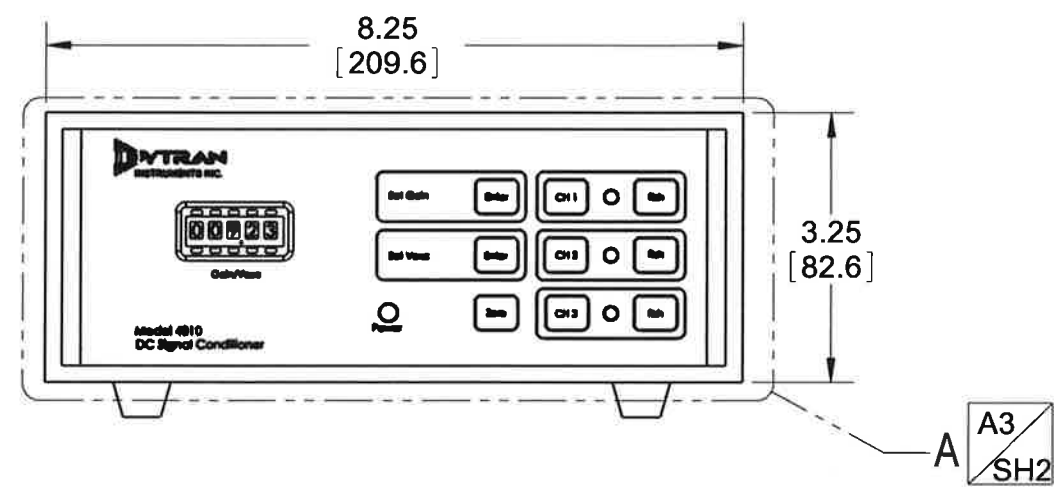
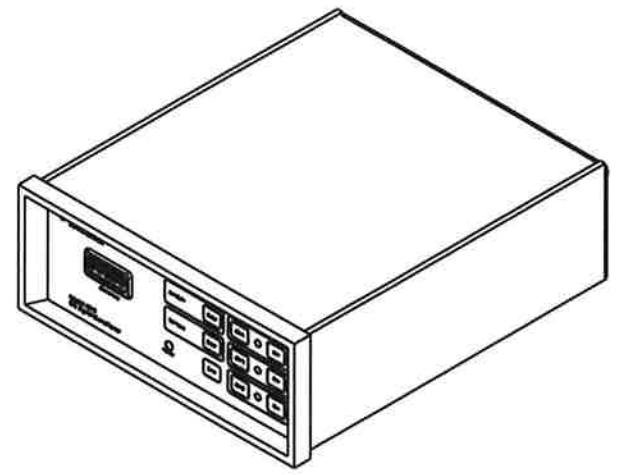


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	10469	REVISED FRONT & REAR PANEL TO REFLECT ACTUAL UNIT	JS 10/17/13	RA	DV
D	11407	REVISED FRONT PANEL TO REFLECT ACTUAL UNIT	LA 10/22/14	JS	LN
E	13281	SHT 2 ADDED VIEW B, ADDED SHEET 2	RA, 02/22/17	JS 3/3	LN



UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE:			
DECIMALS .XX ±.03 .XXX ±.010	METRIC .X ± 0.8 .XX ±0.25	ANGLES ±1°	<b>MASTER COPY</b> <b>ONLY FINISHED</b>		
<b>APPROVALS</b> ORIG JS 06/08/10 CHK EP 11/22/11 APP DV 11/28/11		<b>DATE</b> 11/28/11		<b>TITLE:</b> OUTLINE/INSTALLATION DRAWING, MODEL 4010	
ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.		DO NOT SCALE DRAWING		SIZE <b>B</b> SCALE: 1:4	CAGE CODE <b>2W033</b> DWG NO <b>127-4010</b> SHEET 1 OF 2
		THIRD ANGLE PROJECTION 		REV <b>E</b>	

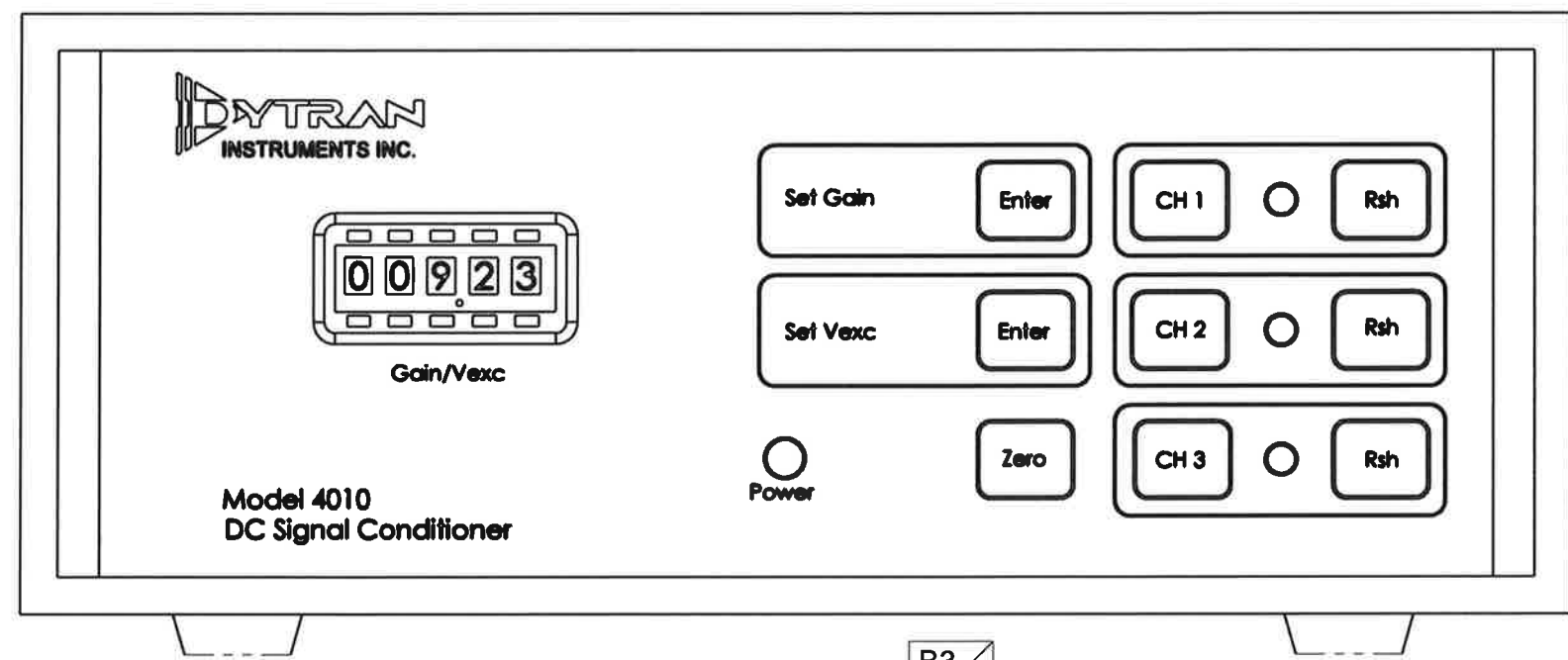
2. UTILIZES OPTIONAL 2-POLE HIGH PASS AND LOW PASS SERIES 4198A.

1 AC POWER CORD (NOT SHOWN) SUPPLIED.

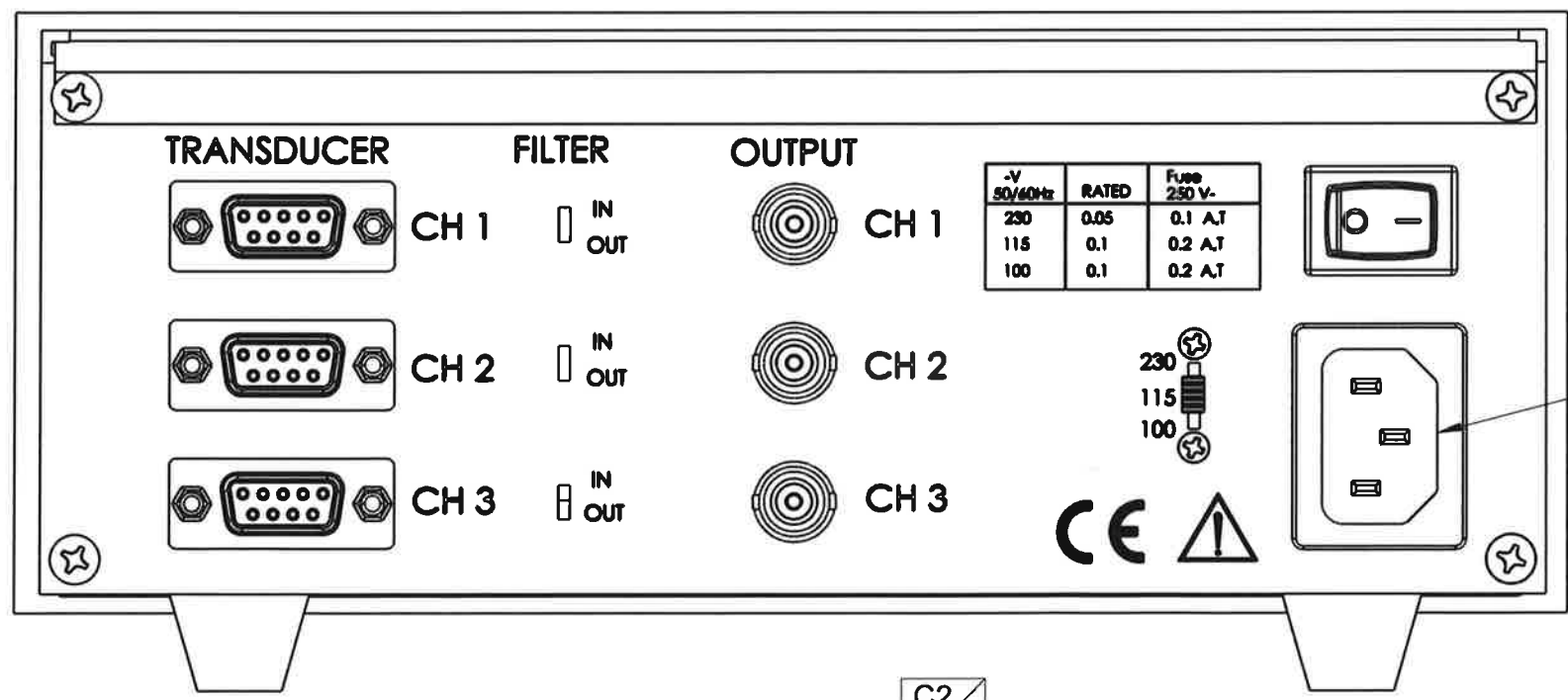
NOTES: UNLESS OTHERWISE SPECIFIED

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DETAIL A B3 SH1



VIEW B-B C2 SH1

**MASTER**  
DYTRAN INSTRUMENTS, INC. Chatsworth, CA  
**ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION  
DRAWING, MODEL 4010**

SIZE <b>B</b>	CAGE CODE <b>2W033</b>	DWG NO <b>127-4010</b>	REV <b>E</b>
SCALE: 1:4	PART NO: 127-0917-01	SHEET 2 OF 2	



- DESIGN TO BE USED WITH BRIDGE TYPE OR DIFFERENTIAL ACCELEROMETERS AND PRESSURE TRANSDUCERS
- VARIABLE GAIN ADJUSTMENT
- SHUNT CALIBRATION CAPABILITY
- MULTIPLE EXCITATION LEVEL SETTINGS

**PHYSICAL**

Weight, Max (with out power cord) 3.4 lbs.  
Case Material Iridited Aluminum

**Input Specifications**

Input Range, Differential 0 to ± 10 Vdc or peak Vac, 9-pin D-sub connector for each bridge sensor  
Input Impedance, Minimum >1 Megohm  
Common Mode Input Range ± 10 Vdc or peak Vac, inclusive of signal 50V peak without damage  
Common Mode Rejection 70db minimum, 200Ω or less imbalance, DC to 60kHz, gain>100  
20db minimum, 200Ω or less imbalance, DC to 60kHz, gain=1

Autozero Adjustment Range ± 10 mVdc for gain <1000  
± 100 mVdc for gain ≤100  
± 1 mVdc for gain ≤10  
± 10 mVdc for gain <1

Autozero Accuracy Within ±50mV

**Output Specifications**

AC/DC Voltage Single ended, short circuit protected, isolated from power ground  
Output Impedance, Maximum 0.2Ω  
Linear Output 10 Vpeak  
Current Output, Minimum 10mA  
Output DC Bias Temp Stability ± 5uV/°C RTI or ±0.1mV/°C RTO whichever is greater  
Output DC Bias Time Stability ± 20uV RTI or ±5mV RTO whichever is greater for 24 hrs., after 1hr. warm-up  
Excitation Voltage 0 to 12 Vdc, front panel selectable for each channel  
Excitation Voltage Accuracy ±1% (0 to 10 Vdc), ±5% (12 Vdc)  
Excitation Current 30mA maximum per channel, short circuit protected  
Noise & Ripple 1mVrms maximum, 10 Hz to 50 kHz, with 1kohm load

**Transfer Characteristics**

Gain Range 0.00 to 999.9  
Resolution For 0 ≤ gain <10, 0.00 to 9.99  
For 10 ≤ gain < 100, 10.00 to 99.99  
For 100 ≤ gain < 1000, 100.00 to 999.9  
Accuracy ±.5% of full scale (max), DC to 1kHz, filters disabled  
Linearity ±0.1% of full scale, best fit straight line at 1kHz reference  
Noise 20 uVrms RTI plus 1mVrms RTO, whichever is greater DC to 50kHz, with a 1kohm source resistance unit (with 10kHz low pass filter enabled [3])  
Frequency Response DC to 150kHz (full power bandwidth), -3db referenced to 1kHz  
Filter Characteristics Optional [3]  
Crosstalk Between Channels 80 db RTI

**Power Requirements**

Voltage 100/115/ 230V ~, 50/60 Hz, rear panel switch selectable  
Current 0.1/0.1/0.05 A  
Isolation No isolation channel to channel or signal ground to case ground

**Environment Specification**

Operating Temperature 0 to +50 °C  
Humidity 95% RH, Non-Condensing

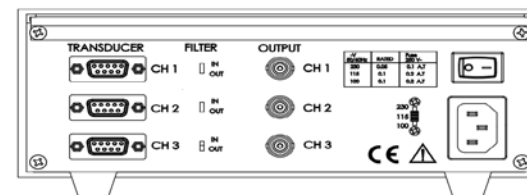
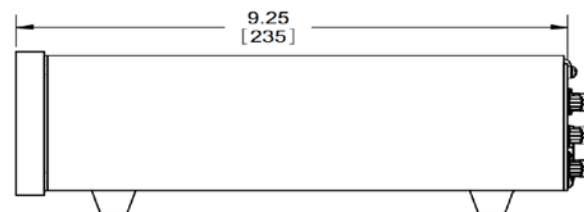
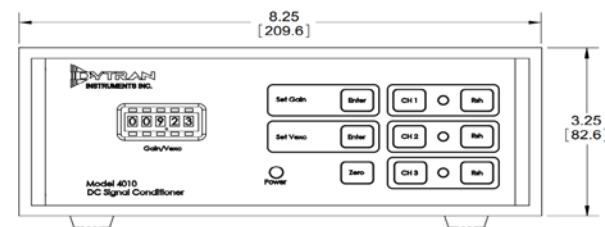
**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Power Cord, 6 FT.

**Notes:**

- [1] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [2] Model 4010 has been CE tested for compliance to EN61326-1:2013 for EMC emissions and immunity and EN61010-1:2010 for Product Safety.
- [3] Optional 2-Pole high pass and low pass filters available for purchase under 4198A Series

Model	Corner Frequency	Filter
4198A1	1kHz	Low Pass 2-Pole
4198A2	5kHz	Low Pass 2-Pole
4198A3	10kHz	Low Pass 2-Pole
4198A4	20kHz	Low Pass 2-Pole
4198A5	50kHz	Low Pass 2-Pole
4198A6	100kHz	Low Pass 2-Pole
4198A7	1Hz	High Pass 2-Pole
4198A8	5Hz	High Pass 2-Pole
4198A9	10Hz	High Pass 2-Pole
4198A10	100Hz	Low Pass 2-Pole



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4010 for more information.

