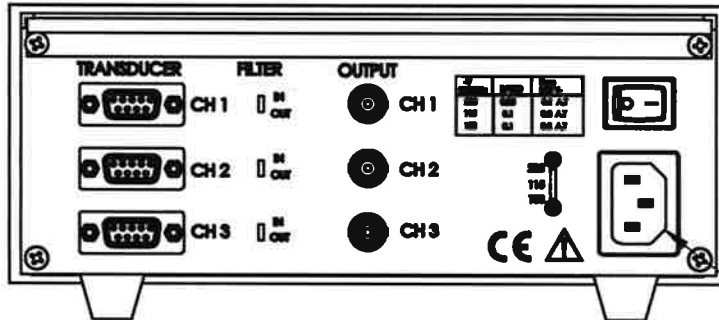


PROPRIETARY AND CONFIDENTIAL

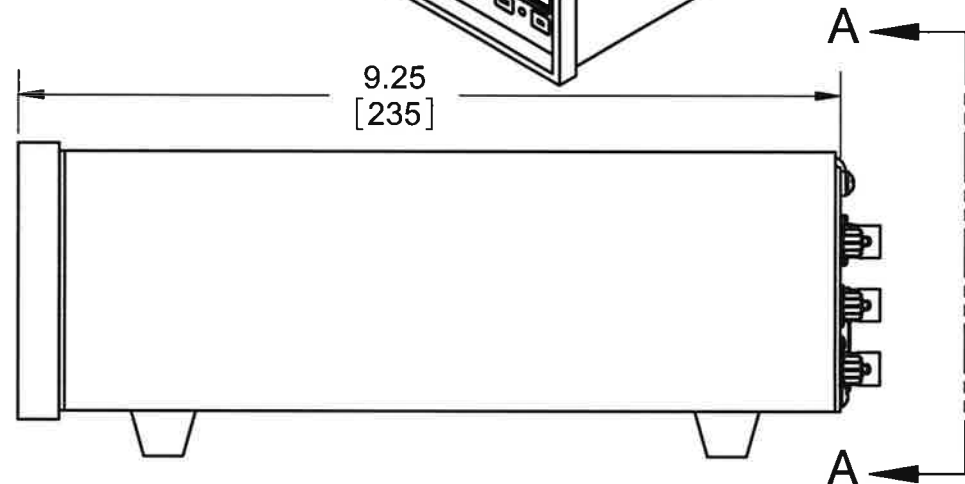
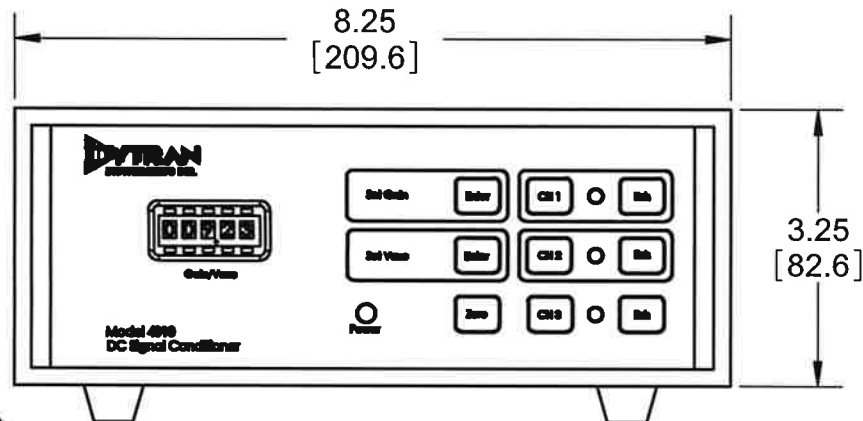
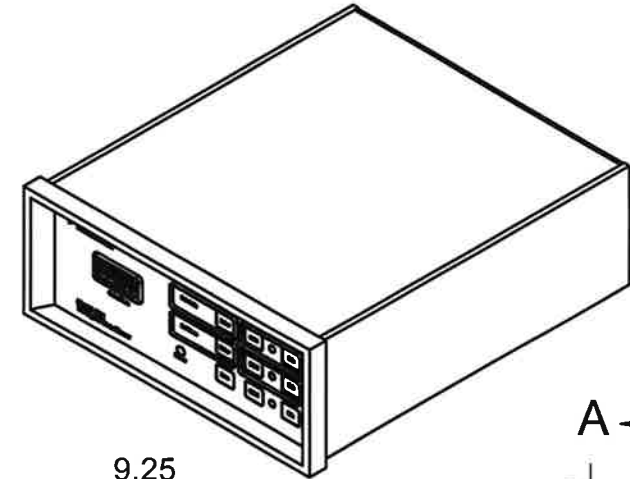
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	8606	ADDED NOTE 1	JS 05/04/12	RA	ANS
C	10469	REVISED FRONT & REAR PANEL TO REFLECT ACTUAL UNIT	JS 10/17/13	RA	ANS



VIEW A-A



1 AC POWER CORD (NOT SHOWN) SUPPLIED.
NOTES: UNLESS OTHERWISE SPECIFIED

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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
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.	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS []
ARE IN MILLIMETERS
TOLERANCES ARE:
INCHES METRIC ANGLES
.XX ± .03 X ± 0.8 ± 1°
.XXX ± .010 .XX ± 0.25

MATERIAL


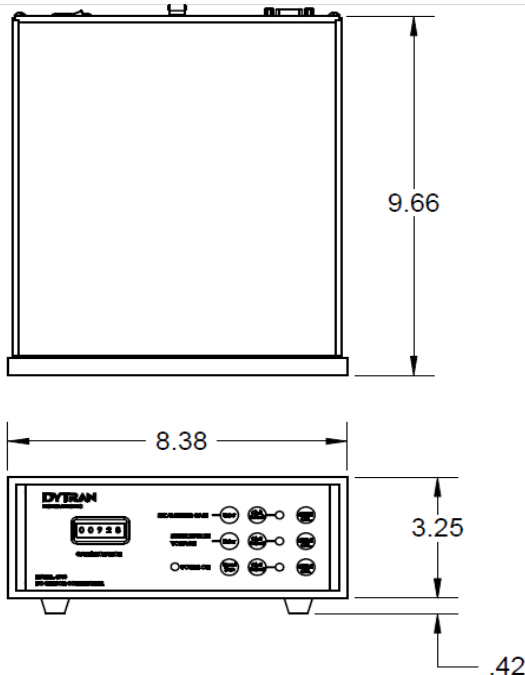

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JS	06/08/10
CHK	EP	11/22/11
APP	DV	11/28/11
APP	ANS	11/4/13

 DYTRAN INSTRUMENTS, INC.		Chatsworth, CA		MASTER OF REVISIONS	
TITLE: OUTLINE/INSTALLATION DRAWING DC SENSOR SIGNAL CONDITIONER, MODEL 4010					
SIZE A	CAGE CODE 2W033	DWG. NO. 127-4010		REV C	
SCALE: NONE		SOLIDWORKS		SHEET 1 OF 1	

Model Number 4010		PERFORMANCE SPECIFICATIONS		DOC NO PS4010	
		3 Channel DC Signal Conditioner Amplifier		REV C, ECN 9669, 03/05/13	
		<ul style="list-style-type: none">• 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, 200 Ω or less imbalance, DC to 60kHz, gain>100			
Autozero Adjustment Range		20db minimum, 200 Ω or less imbalance, DC to 60kHz, gain=1			
		± 10 mVdc for gain <1000			
		± 100 mVdc for gain ≤ 100			
		± 1 mVdc for gain ≤ 10			
		± 10 mVdc for gain <1			
Autozero Accuracy		Within ± 50 mV			
Output Specifications					
AC/DC Voltage		Single ended, short circuit protected, isolated from power ground			
Output Impedance, Maximum		0.2 Ω			
Linear Output		10 Vpeak			
Current Output, Minimum		10mA			
Output DC Bias Temp Stability		$\pm 5\mu$ V/ $^{\circ}$ C RTI or ± 0.1 mV/ $^{\circ}$ C RTO whichever is greater			
Output DC Bias Time Stability		$\pm 20\mu$ V RTI or ± 5 mV 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		$\pm 1\%$ (0 to 10 Vdc), $\pm 5\%$ (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 \leq gain <10, 0.00 to 9.99			
		For 10 \leq gain < 100, 10.00 to 99.99			
		For 100 \leq gain < 1000, 100.00 to 999.9			
Accuracy		$\pm .5\%$ of full scale (max), DC to 1kHz, filters disabled			
Linearity		$\pm 0.1\%$ 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 internal low pass filter enabled)			
Frequency Response		DC to 150kHz (full power bandwidth), -3db referenced to 1kHz			
Filter		Plug in module (optional)			
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 around to case around			
Environment Specification					
Operating Temperature		0 to +50 $^{\circ}$ 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 for EMC emissions and immunity and EN61010-1:2001 for Product Safety.			
					
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4010 for more information.			
		21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com			