PROPRIETARY AND CONFIDENTIAL **REVISIONS** THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY **REV ECN** DESCRIPTION BY/DATE OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED 8606 В ADDED NOTE 1 JS 05/04/12 **REVISED FRONT & REAR PANEL TO** C 10469 JS 10/17/13 REFLECT ACTUAL UNIT TRANSDUCE OUTPUT CE VIEW A-A 8.25 9.25 [209.6] 235 3.25 [82.6] 0 AC POWER CORD (NOT SHOWN) SUPPLIED. NOTES: UNLESS OTHÈRWISE SPECIFIED CONTRACT NO UNLESS OTHERWISE SPECIFIED: UNLESS OTHERWISE SPECIFIED INTERPRET DIM & TOL PER DIMENSIONS ARE IN INCHES. ASME Y14.5M - 1994. Chatsworth: CA DIMENSIONS IN BRACKETS [1 REMOVE BURRS. COUNTERSINK INTERNAL THDS ARE IN MILLIMETERS TITLE: **TOLERANCES ARE:** 90° TO MAJOR DIA. **OUTLINE/INSTALLATION** CHAM EXT THDS 45° TO MINOR DIA. **INCHES** METRIC ANGLES THD LENGTHS AND DEPTHS ARE FOR .XX ± .03 X ± 0.8 ± 1" DRAWING DC SENSOR SIGNAL MIN FULL THDS. USED ON NEXT ASSY .XXX± 010 .XX ±0.25 THDS PER MIL-S-7742. APPLICATION **APPROVALS** DATE MATERIAL DIMENSIONS APPLY AFTER FINISHING. **CONDITIONER, MODEL 4010**

ORIG

CHK

APP

APP

JS

EP

DV

06/08/10

11/22/11

11/28/11

SIZE

SCALE: NONE

CAGE CODE

2W033

IDWG. NO.

SOLIDWORKS

127-4010

APPR

ANS

DI

REV

SHEET 1 OF 1

CHK

RA

1725

THIRD ANGLE PROJECTION

ALL MACHINED SURFACES.

TOTAL RUNOUT WITHIN .005.

BREAK SHARP EDGES .005 TO .010.

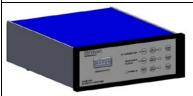
ABBREVIATIONS PER MIL-STD-12.

MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4.

FINISH

DO NOT SCALE DRAWING

Model Number DOC NO PERFORMANCE SPECIFICATIONS 4010 PS4010 3 Channel DC Signal Conditioner Amplifier REV C, ECN 9669, 03/05/13



- 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) Case Material

Input Specifications

Input Range, Differential Input Impedance, Minimum Common Mode Input Range Common Mode Rejection

Autozero Adjustment Range

Autozero Accuracy

Output Specifications

AC/DC Voltage Output Impedance, Maximum

Linear Output

Current Output, Minimum

Output DC Bias Temp Stability

Output DC Bias Time Stability

Excitation Voltage Excitation Voltage Accuracy

Excitation Current Noise & Ripple

Transfer Characteristics

Gain Range

Resolution

Accuracy

Linearity

Noise

Frequency Response

Filter Crosstalk Between Channels

Power Requirements Voltage

Current Isolation

Environment Specification

Operating Temperature

0 to +50 °C Humidity

3.4 lbs.

Iridited Aluminum

0 to ± 10 Vdc or peak Vac, 9-pin D-sub connector for each bridge sensor

>1 Megohm

± 10 Vdc or peak Vac, inclusive of signal 50V peak without damage 70db minimum, 200Ω or less imbalance, DC to 60kHz, gain>100 20db minimum, 200Ω 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

Within ±50mV

Single ended, short circuit protected, isolated from power ground

10 Vpeak 10mA

± 5uV/°C RTI or ±0.1mV/°C RTO whichever is greater

± 20uV RTI or ±5mV RTO whichever is greater for 24 hrs., after 1hr. warm-up

0 to 12 Vdc, front panel selectable for each channel

±1% (0 to 10 Vdc), ±5% (12 Vdc)

30mA maximum per channel, short circuit protected

1mVrms maximum, 10 Hz to 50 kHz, with 1kohm load

0.00 to 999.9

For $0 \le \text{gain} < 10,0.00 \text{ to } 9.99$ For $10 \le gain < 100.10.00$ to 99.99For 100 ≤ gain < 1000,100.00 to 999.9

±.5% of full scale (max), DC to 1kHz, filters disabled ±0.1% of full scale, best fit straight line at 1kHz reference

20 uVrms RTI plus1mVrms RTO, whichever is greater DC to 50kHz, with a 1kohm source

resistance unit (with 10kHz internal low pass filter enabled)

DC to 150kHz (full power bandwidth), -3db referenced to 1kHz

Plug in module (optional)

80 db RTI

100/115/230V ~,50/60 Hz, rear panel switch selectable

No isolation channel to channel or signal ground to case ground

95% RH, Non-Condensing

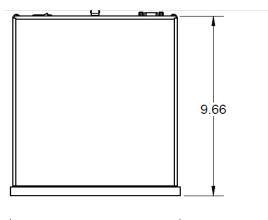
Supplied Accessories:

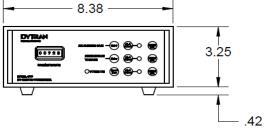
1) Accredited calibration certificate (ISO 17025)

2) Power Cord, 6 FT.

[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.



