

PROPRIETARY AND CONFIDENTIAL

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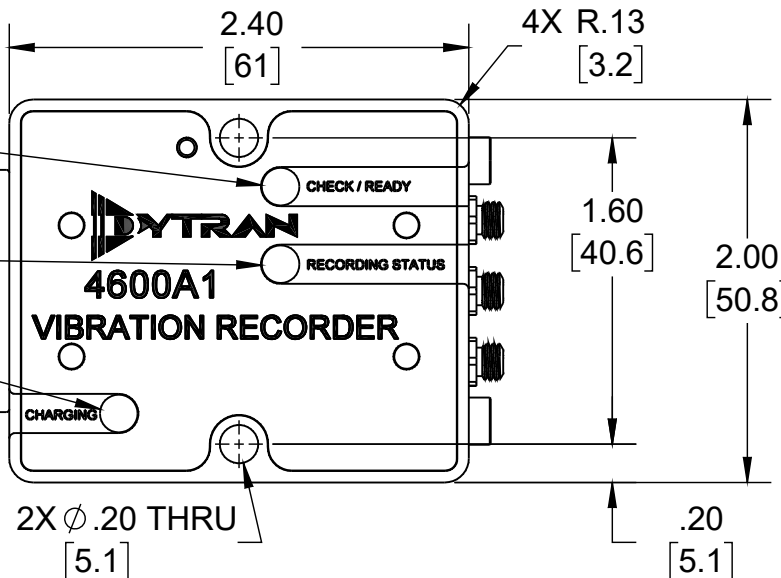
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	16050	INITIAL RELEASE	AM 03/18/22	AS	DV

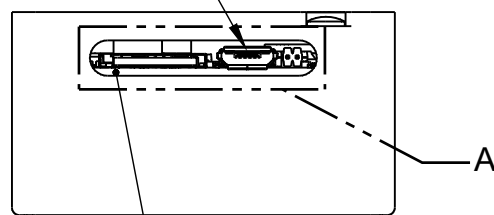
HARDWARE CHECK / READY INDICATOR LED

RECORDING INDICATOR LED

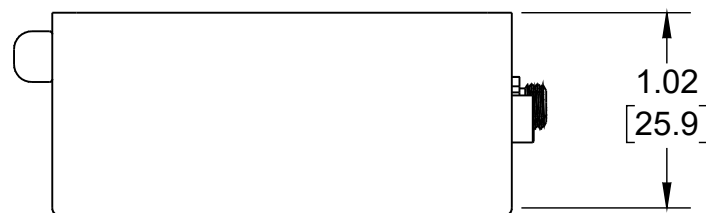
CHARGING INDICATOR LED



MATES WITH CHARGING CABLE, MODEL 69126, QTY:1 (SUPPLIED)



MOLDED COVER NOT SHOWN FOR CLARITY



POWER BUTTON

RECORD BUTTON

2X .32 [8.1]

3X 10-32 CONNECTORS

9007 SOFTWARE, SUPPLIED

RARE EARTH MAGNETS, PERMANENTLY INSTALLED

MOLDED COVER

7 BOTTOM COVER, REMOVABLE

BATTERY CHARGING PORT, MICRO-USB 6 SYNCHRONIZATION CONNECTOR

MICRO-SD CARD SLOT (MICRO-SD CARD SUPPLIED)

7 MOLDED COVER NOT SHOWN FOR CLARITY

DETAIL A SCALE 3:1

7 MOLDED COVER AND BOTTOM COVER MUST BE INSTALLED TO MEET IP RATING.

6 MATING SYNCHRONIZATION CABLE: DYTRAN MODEL 60153AXX.

5 MAGNETS PULL RATING: UP TO 8.4 lb. NOTE: MAXIMUM PULL RATINGS ARE BASED ON DIRECT CONTACT WITH RUST-FREE AND UNPAINTED IRON PLATE. VARIATIONS IN MATERIAL CONDITION WILL SIGNIFICANTLY REDUCE THESE RATINGS.

4 MOUNTING SCREW, MODEL 6246, 10-32 UNF-3A X 1.25, QTY 2, SUPPLIED. MOUNTING SCREW, MODEL 6694A1, M5 X 0.8 X 35mm, QTY 2, SUPPLIED.

3. OPERATING TEMPERATURE, DISCHARGING: -4 °F TO +140 °F (-20 °C TO +60 °C) OPERATING TEMPERATURE, CHARGING: +32 °F TO +113 °F (0 °C TO +45 °C)

2. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: ORANGE.

1. WEIGHT: 170 GRAMS, MAX.

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. DIMENSIONS APPLY AFTER FINISHING.

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:

DECIMALS	METRIC	ANGLES
.XX ±.03	.X ±.08	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	AM	01/22/21
CHK	AS	06/02/22
APP	DV	6/02/22

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DWG, VIBRATION RECORDER, MODEL 4600A1**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-4600A1	A

SCALE: 1:1 SHEET 1 OF 1

MODEL NUMBER 4600A1	PERFORMANCE SPECIFICATIONS	DOC NO. PS4600A1
	ACCELERATION RECORDER	REV B, ECN 16801 , 07/25/2022



- RECORDS VIBRATION UP TO 10 HOURS (3 CHANNEL)
- IP64 RATED
- MICRO-SDHC CARD COMPATIBLE
- DUAL MOUNTING CONFIGURATIONS
- INTEGRATED ANTI-ALIASING FILTERS

PHYSICAL

Weight, Max.
Mounting
Connector (3X)
Housing

Material

	ENGLISH		SI	
Weight, Max.	5.3	oz	150	grams
Mounting	Screws / Magnets		Screws / Magnets	
Connector (3X)	10-32 Coaxial		10-32 Coaxial	
Housing	Aluminum, Anodized		Aluminum, Anodized	

PERFORMANCE

Sampling Rates
Acquisition Type
Synchronized Triggering
Recording Time, Max.
Memory Card Type
Resolution
File size

	ENGLISH		SI	
Sampling Rates	100, 500, 1000, 5000, 10000, 25000	Hz	100, 500, 1000, 5000, 10000, 25000	Hz
Acquisition Type	Free Run / Triggered / Time		Free Run / Triggered / Time	
Synchronized Triggering	Optical / Cable transmission		Optical / Cable transmission	
Recording Time, Max.	10	hours	10	hours
Memory Card Type	Micro-SDHC		Micro-SDHC	
Resolution	16	Bit	16	Bit
File size	1-100	Mbyte	1-100	Mbyte

ELECTRICAL

Battery
Sensor Current (±10%)
Sensor Compliance Voltage
Input Voltage
Coupling
Coupling TC
Anti-Aliasing filters

	ENGLISH		SI	
Battery	1400mAh (Rechargeable)		1400mAh (Rechargeable)	
Sensor Current (±10%)	2	mA	2	mA
Sensor Compliance Voltage	18 - 19	VDC	18 - 19	VDC
Input Voltage	5	V	5	V
Coupling	AC		AC	
Coupling TC	> 3	sec	> 3	sec
Anti-Aliasing filters	8-pole Elliptic		8-pole Elliptic	

ENVIRONMENTAL

Shock Max
Operating Temperature, Discharging
Operating Temperature, Charging
Seal [3]

	ENGLISH		SI	
Shock Max	1,000	g pk	9810	m/s ² pk
Operating Temperature, Discharging	-4 to +140	°F	-20 to +60	°C
Operating Temperature, Charging	+32 to +113	°F	0 to +45	°C
Seal [3]	Environmental / IP64		Environmental / IP64	

This family also includes:

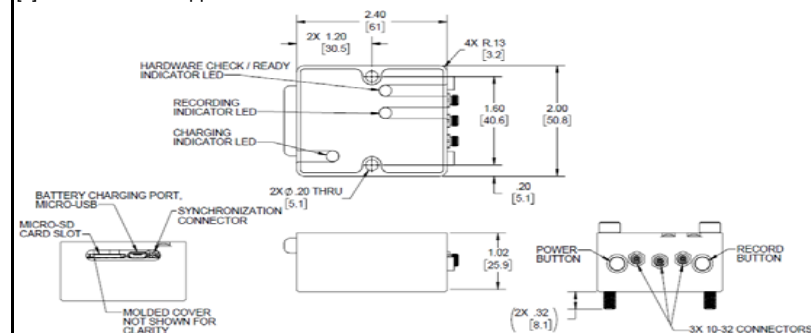
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Screw, Model 6246, 10-32 X 1.25, Qty. 2
- 3) Mounting Screw, Model 6694A1, M5x0.8 X 35mm, Qty. 2
- 4) Charging cable, Model 69126, USB Type A to Micro B, Qty:1

Notes:

- [1] Compatible cables include: Model 6010A (10-32 to 10-32), Model 6431AXX (10-32 to 4-pin), Model 6337AXX (10-32 to SMB), Model 6772AXX (10-32 to M3 X 0.35 Conn), Model 60153AXX (Synchronization Cable) etc.
- [2] In the interest of constant product improvement, we reserve the rights to change the specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.
- [3] Molded cover and bottom cover with integral sealing gasket must both be installed to meet IP64 rating.
- [4] Micro-SD card supplied.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4600A1 for more information.



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