

MODEL NUMBER
4401A1

PERFORMANCE SPECIFICATIONS

PS4401A1

DATA RECORDER, MULTI-AXIS

REV C, ECN 16655, 03/08/22



• RECORDS MULTIPLE DATA CHANNELS FOR SEVERAL DAYS

- MicroSDHC CARD COMPATIBLE
- OPTION FOR EXTERNAL POWER
- SOFTWARE TRIGGERED RELAY

	ENGLISH		SI	
PHYSICAL	•		•	
Weight, Max.	15.8	oz	450	grams
Mounting	4x 10-32 Screws	1	4x 10-32 Screws	
Housing Material	Aluminum, Anodized	]	Aluminum, Anodized	
INTERNAL SENSOR PERFORMANCE				
Acceleration Range (X, Y, Z Directions) ±5%	±5	g pk	±49.05	m/s <sup>2</sup> pk
Frequency Range (Acceleration), -3dB	0 to 1200	Hz	0 to 1200	Hz
Angular Rate Range (X, Y, Z Directions) ±10%	±1000	°/sec	±1000	°/sec
Frequency Range (Gyro), -3dB	0-140	Hz	0-140	Hz
Transverse Sensitivity, Max	5	%	5	%
Noise, Accelerometers.	0.08	g RMS	0.78	m/s² RMS
RELAY				
Max switching voltage	200	VDC	200	VDC
Maximum current	0.5	Α	0.5	Α
Insulation resistance	>10	GΩ	>10	GΩ
Contact resistance	100	mΩ	100	mΩ
Rated power	10	W	10	W
Max operation time	0.5	msec.	0.5	msec
ENVIRONMENTAL SPECIFICATIONS		-		
Operating temperature, Discharging	-4 to +131	°F	-20 to +55	°C
Operating temperature, Charging	32 to +104	°F	0 to +40	°C
Seal [3]	IP65		IP65	
Max shock	500	g pk	4905	m/s <sup>2</sup> pk
POWER SPECIFICATIONS				
Battery, Capacity	LiPo, 2000mAh	Ì	LiPo, 2000mAh	
External power	8 - 32	VDC	8 - 32	VDC
USB power	5	VDC	5	VDC
Charge Time	8	hours	8	hours
Charge current	250	mA	250	mA
Charge indicator	Yes		Yes	
		1		

This family also includes:			
Model	Internal Accelerometers Range (g pk)  Noise (g RMS)		
4401A2	±16	0.025	

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

## DATA CONVERSION

Sampling rates
Resolution
Synchronization

250, 1200, 4280	
14	
See notes	

Samples/sec bit

## Supplied Accessories:

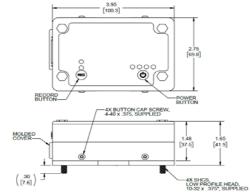
- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting plate, Qty. 1
- 3) Mounting Screws, 10-32 x .375, Qty. 4
- 4) 60068A Charging cable, 3 ft.

## Notes:

- [1] All internal channels are synchronized between each other. All external channels are synchronized between each other.
   [2] In the interest of constant product improvement, we reserve the right to change 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] Install molded cover to maintain IP65 seal.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4401A1 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com