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|--------------------------------------|-----------------------------------|-----------------------------------|
| MODEL NUMBER 4404A1 | PERFORMANCE SPECIFICATIONS | DOC NO. PS4404A1 |
| | DATA RECORDER, MULTI-AXIS | REV X3, ECN XXXX, 06/06/19 |



- RECORDS MULTIPLE DATA CHANNELS FOR SEVERAL DAYS
- MicroSDHC CARD COMPATIBLE
- REMOTE TRIGGERING UP TO 50FT - LINE OF SIGHT (AIR)
- PROGRAMMABLE AXIS ORIENTATION

PHYSICAL
Weight, Max.
Mounting
Housing

| ENGLISH | | SI | |
|--------------------|----------|--------------------|-------|
| 21.0 | oz | 600 | grams |
| 4x 10-32 Screws | | 4x 10-32 Screws | |
| Aluminum, Anodized | Material | Aluminum, Anodized | |

INTERNAL SENSOR PERFORMANCE

| | ENGLISH | UNIT | SI | UNIT |
|---|----------|-------|----------|-----------------------|
| Acceleration Range (X, Y, Z Directions) | ±5 | Gpeak | ±98.1 | m/s ² peak |
| Frequency Range (Acceleration), -3dB | 0 to 500 | Hz | 0 to 500 | Hz |
| Angular Rate Range (X, Y, Z Directions) | ±150 | °/sec | ±150 | °/sec |
| Frequency Range (Gyro), -3dB | 0-400 | Hz | 0-400 | Hz |
| Transverse Sensitivity, Max | 3 | % | 3 | % |
| Noise, Accelerometers. | 0.02 | Grms | 0.20 | m/s ² rms |
| Non-Linearity, Max | 2.5 | % | 2.5 | % |

ENVIRONMENTAL SPECIFICATIONS

| | ENGLISH | UNIT | SI | UNIT |
|------------------------------------|------------|------|------------|------------------|
| Operating temperature, Discharging | -4 to +131 | °F | -20 to +55 | °C |
| Operating temperature, Charging | 32 to +104 | °F | 0 to +40 | °C |
| Seal | IP67 | | IP67 | |
| Max vibration | 200 | g | 1962 | m/s ² |
| Max shock | 500 | g | 4905 | m/s ² |

POWER SPECIFICATIONS

| | ENGLISH | UNIT | SI | UNIT |
|-------------------|---------------|-------|---------------|-------|
| Battery, Capacity | LiPo, 2000mAh | | LiPo, 2000mAh | |
| USB power | 5 | VDC | 5 | VDC |
| Charge Time | 8 | hours | 8 | hours |
| Charge current | 250 | mA | 250 | mA |
| Charge indicator | Yes | | Yes | |

| Model | Internal Accel. Range (Gpeak) / Gyro (°/sec) | Noise Accel (Grms) / Gyro (√Hz) |
|--------|--|---------------------------------|
| 4404A1 | ±5 / ±50 | TBD |
| 4404A2 | ±10 / ±150 | TBD |
| 4404A3 | ±30 / ±250 | TBD |
| 4404A4 | ±200 / ±20000 | TBD |
| 4404A5 | ±2 / ±50 | TBD |

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

DATA CONVERSION

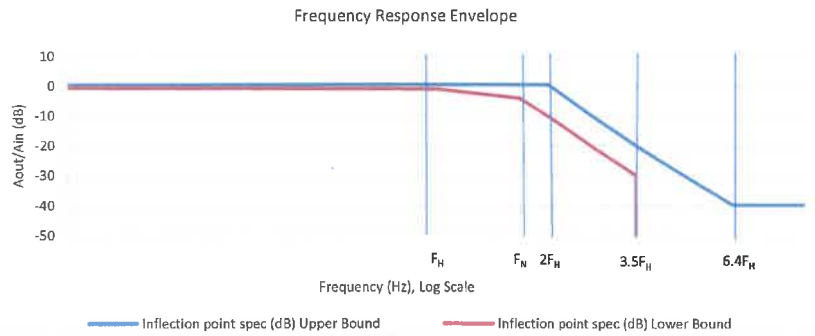
| | | |
|-------------------------|---|-------------|
| Sampling rates (+/-5Hz) | 120, 250, 256,500, 512, 720, 1024, 1200 | Samples/sec |
| Resolution | 24 | bit |
| Synchronization | [1] | |

Supplied Accessories:

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

Notes:

- [1] Simultaneous sampling between all channels
- [2] Graph below: $F_H = F_s / 12$, $F_N = F_s / 7.2$, F_s - Sampling Frequency
- [3] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customers 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 over time. All operating temperatures, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4404A for more information.



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