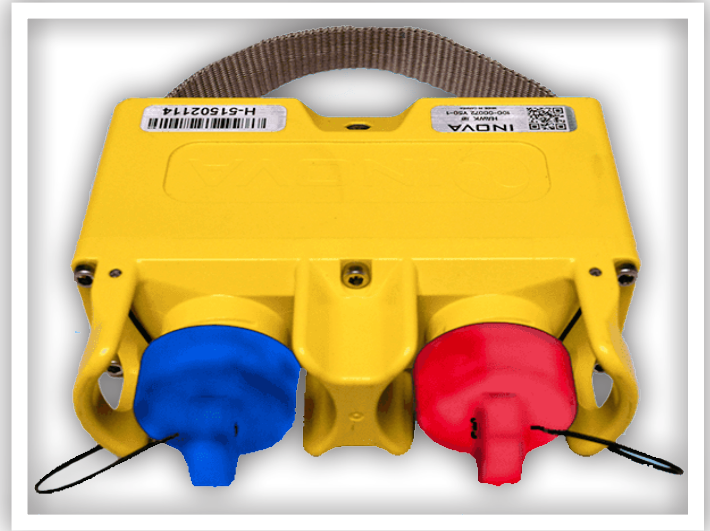


## Ground Equipment

### FIELD STATION UNIT (FSU)

- Integrated with iX1
- Flexible sensor options
- Backward compatible with Hawk



### GENERAL SPECIFICATIONS

Number of analog channels:

1, 2 or 3

Data Storage Capacity:

16 GB non-volatile flash memory

Power Consumption:

155 mW (1-channel analog)

190 mW (3-channel analog)

External Battery Input:

10-17 V DC

LED Status Indicator:

Station, Sensor, GPS, Battery

Wireless Communication Interfaces:

Wi-Fi

Sensor Input Connector:

6 pin Dynacon (multi-channel configuration)

Power/Ethernet Connector:

8 pin Dynacon

Timing accuracy:

+/- 25  $\mu$ s

### ENVIRONMENTAL SPECIFICATIONS

Storage Temperature:

-50 °C to +85 °C

Operating Temperature:

-40 °C to +85 °C

### PHYSICAL

Size:

16.51 cm(L) x 13.2(W) cm x 5.5(H) cm

(6.5" x 5.2" x 2.2")

Weight:

0.9 kg (2 lb)

## GROUND EQUIPMENT

### FIELD STATION UNIT (CONT.)

#### ANALOG SPECIFICATIONS

Preamplifier Fixed Gain Levels  
0 dB, 12 dB, 24 dB

Sample Interval  
1/2 ms, 1 ms, 2 ms, or 4 ms

Maximum Input (RMS)  
1.768 V @ 0dB gain  
0.442 V @ 12dB gain  
0.110 V @ 24dB gain

Equivalent Input Noise\* (RMS)  
0.790  $\mu$ V @ 0dB gain  
0.220  $\mu$ V @ 12dB gain  
0.098  $\mu$ V @ 24dB gain

Instantaneous Dynamic Range \*  
127 dB @ 0dB gain  
126 dB @ 12dB gain  
121 dB @ 24dB gain

System dynamic range \*  
145 dB

Total Harmonic Distortion\*  
0.0001%

Common Mode Rejection\*  
110 dB

Frequency Response  
0 Hz to 826 Hz

Input Impedance  
Differential mode 20 kohm in parallel with 12 nF  
Common Mode 2.0 Mohm in parallel with 1 nF

Digital anti-alias filters  
3 dB @ .826 fN (Nyquist)

Rejection  
130 dB above Nyquist frequency

#### ANALOG BUILT-IN TESTS (BITS)

##### INSTRUMENT TESTS

- Common-Mode Rejection, Cross-feed, Harmonic Distortion, Noise

##### SENSOR TESTS

- CMRR, Damping, Distortion, Impedance, Leakage, Natural frequency, Powerline pickup, Resistance, Spread noise

#### OPTIONS

- 32 GB non-volatile flash memory
- Digital sensor support (INOVA sensors only)
- Single channel configuration

\*Typical specifications @ 2 ms sampling @ 25 °C