

i-ALERT[®]3

Data Sheet

Vibration and Temperature Specifications:

Sensor Characteristics	i-ALERT3
Flux Sensing	Yes
Flux Range	.13/1.6mT (auto)
Run Speed Measurement	Calculated
Temperature Resolution	0.1C
On-Board FFT Calculation	Yes
On-Board Kurtosis Calculation	Yes
Dynamic Range	20g
Frequency Range (X,Y,Z direction)	4Hz-5000Hz/2500Hz (selectable)
Frequency Resolution	0.5Hz / 2Hz
Selectable Band Measurements	Yes
Maximum Equipment Temperature	183F



Standard Vibration FFT Specifications	Low Range	High Range
Number of Samples	8192	8192
Sample Rate (Samples/s)	16384	32768
Lines of Resolution	4096	4096
Frequency Resolution (Bin Size)	0.5Hz	2Hz
Frequency (Min)	1Hz	1Hz
Frequency (Max)	800Hz	4990Hz

Flux FFT Specifications	
Number of Samples	8192
Sample Rate (Samples/s)	32768
Lines of Resolution	4096
Frequency Resolution (Bin Size)	1Hz
Frequency (Min)	1Hz
Frequency (Max)	4096Hz

Sensor Characteristics	i-ALERT3
Bluetooth Range	30m (100ft)
Bluetooth Throughput	Up to 50KB/s
Rating	IP68
Hazardous Rating	Class 1, Div 1
Expected Life (years nominal)	2-3
Replaceable Battery	Yes

i-ALERT3 Temperature Specifications

Temperature Accuracy ^{1,2}	i-ALERT 3
Accuracy (Steady State)	2 deg. F
Accuracy (Variable, <20deg/hour)	4 deg. F

¹Temperature accuracy is only valid when sensor is mounted directly or using mounting pad.

²i-ALERT3 has a temperature offset field used interactively to compensate for delta_T

Certifications

2460
 -20°C < T_{ambient} < +70°C
 IP64
 CONTAINS LI BATTERY

 I M1 Ex ia I Ma
 II 1G Ex ia IIB T4 Ga
 II 1D Ex ia IIIC T135° C Da

INTRINSICALLY SAFE
 Securite intrinseque
 CL I, II, III DIV 1 GR. C, D, E, F, G T4
 CLASS I, ZONE 0, AEx ia 118 T4 Ga;
 Ex ia IIB T4 Ga, -20°C < T_a < +70°C
 i-ALERT3 K21890A, ITT Goulds Pumps Inc. Seneca Falls, NY USA
 801669

