

EquipManager[®]

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| Operating Temperature | -4°F/-20°C to +140°F/+60°C (optional heater available for cold room applications) |
| Operating Humidity | 0–100% noncondensing |
| Impact Detection Range | User-adjustable threshold 0.3G to 7G |
| Operating Shock | 10G (nondestructive)/100G (destructive) |
| Output Alarm | Piezoelectric 98 dB |
| Case Size | Main Unit: 4.33" x 4.33" x 2.8" Control Head: 6.25" x 3.5" x 2.75" |
| Case Material | Main Unit: Polystyrene Control Head: Polycarbonate |
| Case Rating | NEMA 4X |
| Power Source | 10 to 60 VDC |
| Relay Output | Normally open contact fused @ 5 amps Normally closed contact fused @ 10 amps |
| Data Storage Capacity | 1300 events (operator log on/off) (impact time/date) 1000 authorized operators |
| Data Retrieval | 8K x 8 memory device and/or RF data transmission |
| Radio Specifications | <p><i>802.11 WiFi:</i> IEEE 802.11b/g Direct Sequence Compliance Protocol FCC Part 15 Class B, ETS 300.339 Compliance Bandwidth: 2.4 to 2.5GHz Receiver Sensitivity: -81 dB</p> <p><i>900MHz:</i> Power Output: 1 mW - 1 Watt (0 - 30 dBm) RF Data Rate: 9.6 or 115.2 Kbps Interface Data Rate: up to 230.4 Kbps Receiver Sensitivity: -110 dBm (@ 9600 bps) Spread Spectrum Type: FHSS (Frequency Hopping Spread Spectrum) Channel Capacity: 10 hop sequences share 50 frequencies Encryption: 256-bit AES Frequency Band: 902 - 928MHz Certifications: United States (FCC): OUR-9XTEND Canada (IC): 4214A-9XTEND Australia: Approved (XTH9) Class 1 Division 2: Approved</p> |
| Inputs | 8 Digital: max voltage 64 VD |

Modes: change of state, counter, timer, interrupt
High Transition Voltage ≤ 7 VDC
Low Transition Voltage ≥ 2 VDC
Minimum Hysterisis: 0.8 V

2 Analog:
max voltage 64 VDC
Modes: high/low levels, change of state, counter, timer
Full scale approximately 64 VDC
10-bit resolution

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| Control Head Display | 2 X 20 transmissive, green LED, black/white LCD 5 X 8 character format |
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ImpactManager®

ImpactManager RF Product Specifications

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| Operating Temperature | -4°F/-20°C to +140°F/+60°C |
| Operating Humidity | 0 – 100% Non-condensing |
| Operating Shock | 10G (nondestructive) 100G (destructive) |
| Case Size | 4.33" x 4.33" x 2.8" |
| Case Material | Polystyrene |
| Case Rating | NEMA 4X |
| Weight | 2.5 lbs |
| Power Source | 10 – 60 V DC |
| Impact Detection | User-adjustable threshold |
| Impact Detection Range | 0.3G to 7G |
| Data Storage Capacity | 400 events (operator log on/off) (impact time/date) |
| Relay Output | Normally open contact fused @ 5 amps (2AG 5 amp @ 125V) Normally closed contact fused @ 10 amps (2AG 5 amp @ 125V) |
| Output Alarm | Piezoelectric 98 db |

Data Retrieval

RFID 900MHz – 8K X 8 memory device and/or RF data transmission

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| RF Transmission Frequency | 902 – 928 MHz, unlicensed ISM band |
| Radio Type | Frequency hopping spread spectrum |
| Frequency Control | Direct FM |
| Data Rate | 9600 bps |
| Transmit Power Output | 100mW nominal |
| Transmission Range | Indoor: 600' to 1500' Outdoor: 1500' to 2500' |
| FCC ID | OUR9XTREAM |
| FCC RF Exposure Requirements | Maintain a 20 cm separation from the antenna to any nearby persons |

Data Retrieval

RFID WiFi – 8K X 8 memory device and/or RF data transmission

IEEE 802.11b Direct Sequence Compliance Protocol

FCC Part 15 Class B, ETS 300.339 Compliance

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| Bandwidth | 2.4 to 2.5 GHz |
| Receiver Sensitivity | -81 dBm |

ImpactManager ID Product Specifications

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|-------------------------------|---|
| Operating Temperature | -20°C to +60°C -4°F to +140°F |
| Operating Humidity | 0 – 100% Non-condensing |
| Operating Shock | 10G (non-destructive) 100G (destructive) |
| Case Size | 4.33 in x 4.33 in x 2.8 in |
| Case Material | Polystyrene |
| Case Rating | NEMA 4X |
| Weight | 2.5 lbs. |
| Power Source | 10 – 60 VDC |
| Impact Detection | User-adjustable threshold sensor |
| Impact Detection Range | .3G to 7G |



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| Data Storage Capacity | 400 events |
| Data Retrieval | With yellow Manager's Key |
| Relay Output | Open contact fused @ 5 amps Closed contact fused @ 10 amps |
| Output Alarm | Piezoelectric 98 db |
| ShockMate Software Computer Requirements | Operating system: Win 95, Win 98, Win NT, Win 2000, Win XP Memory: 6 Megabytes needed on hard drive 8 Megabytes RAM |
| DataRanger Specifications | Memory: 522k Flash Battery: 9V alkaline or U9VL lithium 18 – 24 month battery life (U9VL) Enclosure: ABS, 4.2 x 2.4 x .9 inches Weight: 5 ounces |

ImpactManager SC Product Specifications

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|-----------------------------------|----------------------------------|
| Operating Temperature | -4°F to +140°F -20°C to +60°C |
| Case Size | 4.33" x 4.33" x 2.8" |
| Case Material | Polystyrene |
| Case Rating | NEMA 4X |
| Weight | 2.5 lbs. |
| Sensor | Adjustable magnetic |
| Battery Type | 9V |
| Battery Life Not Activated | 1 year |
| Battery Life Activated | 70 hours |
| Shock Resistance | 40G @ 11s |
| Vibration Resistance | 12G @ 10 to 55Hz |
| Output Alarm | Piezoelectric 103 db |

FleetControl® Manager

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| Operating Temperature | -4°F / -20°C to 140°F / 60°C |
| Operating Humidity | 0–100% noncondensing |
| Impact Detection Range | User-adjustable threshold 0G to 10G |
| Output Alarm | Piezoelectric 98dB |
| Case Size | Main unit: 3.36" x 5.50" x 1.45" |
| Case Material | Main unit: PC / ABS |
| Case Rating | NEMA 4X |
| Power Source | Powered USB or powered COM-Port |
| Relay Output | Normally open contact fused @ 5 amps Normally closed contact fused @ 10 amps |
| Data Storage Capacity | 1,300 events (operator log on / off) (impact time / date) 1,000 authorized operators |
| VMC Hardware/SW Requirements | Free USB 1.0 or higher port or free power COM-Port Windows® XP 70mg tier disk space on hard drive |
| Inputs | 4 Digital: max voltage 64VDC Modes: change of state, counter, timer, interrupt High-transition voltage <= 7VDC Low-transition voltage >= 2VDC Minimum hysteresis: 0.8 V – battery 1 External voltage 3 Analog: max voltage 64VDC Modes: high / low levels, change of state, counter, timer Full scale approximately 64VDC 10-Bit resolution |