

VAC4

Part of the PowerFleet Enterprise System



The VAC4S and PowerFleet Enterprise provide wireless, automated control & monitoring of industrial vehicles. PowerFleet Enterprise empowers companies to effectively manage, track, monitor, and control their powered industrial vehicles and the operators who use them. It helps improve material handling productivity, reduce costs, and increase visibility by establishing accountability for the use of forklifts and other industrial trucks, ensuring equipment is in the proper place at the right time, streamlining work flow, and measuring vehicle utilization.

PowerFleet Enterprise reduces fleet maintenance costs by automatically monitoring vehicle status, reporting equipment problems electronically, scheduling maintenance according to actual vehicle usage rather than by calendar or manual data entry, and helping determine the optimal economic time to replace equipment. PowerFleet Enterprise and the VAC4S help improve workplace safety and security by restricting vehicle access to trained, authorized operators, enforcing electronic safety inspection checklists, and sensing vehicle impacts.

Features

- Integrated micro-computer with highly configurable firmware to accommodate any wireless communication needs
- Installs on virtually any industrial vehicle (forklifts, tow tractors, etc.)
- Rugged construction withstands harsh environmental conditions
- All components (antennae, card reader, etc.) protected inside the VAC
- Supports a variety of access control options to accommodate existing facility credentials (proximity card, iButton, keypad, etc.)
- Provides electronic safety checklists via built-in display and 20-key keypad
- Automatically records & uploads/downloads key vehicle/ operator data
- Wide range of optional sensors (GPS, impact, speed/distance, loaded/unloaded, etc.)
- Performs functions at all times: constant RF connectivity not required

Problems Solved

Unproductive Operators: Movement and load tracking

OSHA Compliance: Automated, configurable and multi-lingual safety checklists

Forklift Damage: Impact management and automated alerts

Unauthorized Operators: RFID card or numeric code required for access

Visibility of Assets: Near real-time location of all assets displayed on map

Industry-Leading Lift Truck Fleet Management with Comprehensive Telematics

*I.D. Systems:
Creating a Culture of Safety*



Specifications/Certifications

Dimensions	4 7/8" x 5 3/4" x 2" (124 x 146 x 51 mm)
Weight	1.3 lbs (0.6 kg)
Operating Temperature Range	-40° to +85° C (No display below -27° C)
Operating Humidity Range	95% RH, Non-condensing (MIL-STD-810F)
Weather Resistance	IP67, meets NEMA 6 (ANSI/IEC 60529)
Vibration	12.6 G RMS random vibration (MIL-STD-810F)
Shock	20 G and 40 G, 11 msec sawtooth pulse (MIL-STD-810F)
Bump	20 G, 6 msec for 15,000 cycles
Input Voltage	Works on any vehicle with batteries from 9–100 VDC
Power Consumption	100-280mA [10-40mA] (lower power mode won't drain battery) Back-up Battery Life: 10 years typical
Memory	4MB x 16 RAM, 2MB x 16 Flash
Clock	Real-time
Display	Back-lit, graphical monochrome LCD; 4 LED indicators visible up to 100 ft (30 m) Access Control Reader: Embedded options (proximity, iButton, Indala, etc.)
I/O Interfaces	9 analog inputs 1 analog output 2 digital inputs 1 serial port input/output

RF Specifications

	Intelligent RF	Optional Wi-Fi 802.11a/b/g/n
Antenna	One internal/tamper-proof	One internal/tamper-proof
Operating Frequencies	868-870 or 902-928, channel selectable	2.412-2.484 GHz 5.18-5.32 GHz; 5.5-5.825 GHz
Channels	Frequency agile, as needed	US: 1-11; EU: 1-13; JPN: 1-14US/EU: 36-64; 100-165
Modulation	Frequency Shift-Keying (FSK), narrow-band, DTS	DSSS
Bandwidth	Adjustable from 50 kHz	20/40 MHz
Transceiver Power	Adjustable from -40 to +15 dBm	+18 dBm
Receiver Sensitivity	-100 dBm max	-97 dBm
Approximate RF Range	Up to 1 mile (1.6 km)	Up to 300 ft (100 m)
WLAN Security Settings	Highly secure. (Not on the WLAN)	Open, WEP-64, WEP-128, WPA- PSK (TKIP), WPA2- PSK (AES), WPA-EM (PEAP-MSCHAPv2), WPA2-EM (PEAP-MSCHAPv2)
Regulatory Certifications	CC Part 15, CE, CSA, UL, R&TTE, ROHS	

VAC4S:

**Part of the PowerFleet
Enterprise solution**

Ensure OSHA compliance

**Improve vehicle
utilization**

**Reduce damage and
associated costs**

**Schedule preventative
maintenance**

**Comprehensive and
configurable reporting**

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