

VAC4S (Vehicle Asset Communicator)

The VAC4S is an intelligent device that provides wireless, automated control & monitoring of industrial vehicles.

GENERAL 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 (impact, speed/distance, loaded/unloaded, etc.)
- Performs functions at all times: constant RF connectivity not required

GENERAL Specifications

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



VAC4S continued

RF Specifications

	Intelligent RF	Optional Wi-Fi / 802.11 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
Channels	Frequency agile, as needed	US: 1-11; EU: 1-13; JPN: 14 channels
Modulation	Frequency Shift-Keying (FSK), narrow-band, DTS	DSSS
Bandwidth	Adjustable from 50 kHz	1-22 MHz
Transceiver Power	Adjustable from -40 to +15 dBm	+17 dBm (b), +14 dBm (g), +12 dBm (n)
Receiver Sensitivity	-100 dBm max	-70 dBm @72 Mbps to -94 dBm @1 Mbps
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	FCC Part 15, CE, CSA, UL, R&TTE, ROHS	

About POWERFLEET® Vehicle Management System (VMS)

POWERFLEET® empowers companies to effectively manage, track, monitor, and control their powered industrial vehicles and the operators who use them. POWERFLEET 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 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 helps improve workplace safety and security by restricting vehicle access to trained, authorized operators, enforcing electronic safety inspection checklists, and sensing vehicle impacts.

ABOUT I.D. SYSTEMS®

I.D. Systems is a global leader and innovator of supply chain technologies, providing advanced solutions for securing, controlling, tracking, and managing high-value enterprise assets, including industrial vehicles, rental cars, dry van trailers, intermodal containers and chassis, and cargo. The company's patented technologies address the needs of organizations to monitor and analyze their assets and operations to increase efficiency, productivity, reduce costs, and improve profitability.