

# Alpha

Integrated Fuel Pump / Fuel Management System Single pump operation.  
Heavy Duty Usage.

The **VECTEC ALPHA** is a simple yet sophisticated fuel management system, designed to provide complete control for commercial transport organisations dispensing fuel to authorised vehicles on -site. The **VECTEC ALPHA** comprises hardware and software, the hardware is a highly specified Fuel Access Control Terminal (FACT) designed to be installed at the fuelling location which integrates a heavy duty commercial fuel pump in the same packaging. **VECTEC FM** reporting and control software is a microsoft windows based package which can run on any windows 32 bit platform. The **VECTEC ALPHA** uses Datatag as the access method for authorisation to use the fuelling facility.

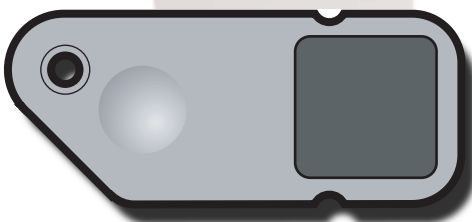
## VECTEC ALPHA - Specification

The **VECTEC ALPHA** is specified as a combination fuel dispenser / fuel management system. The **VECTEC ALPHA** system incorporates a telephone style keypad which enables odometer readings, driver ID's, fleet numbers etc. to be entered at the point of fuelling.

## ACCESS METHOD

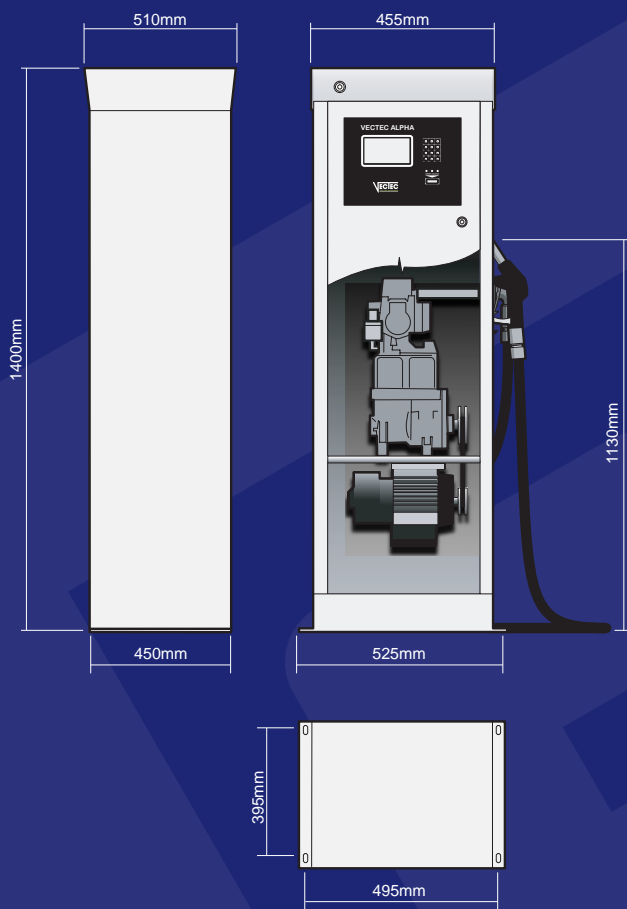
The **VECTEC ALPHA** uses a Datatag as the access method. The Datatag we manufacture is a read/write tag, incorporating high security authentication using a cryptographic algorithm and a guaranteed 100,000 read/write cycles minimum. Data retention is 10 years minimum. The advantages of the Datatag are that there are no moving parts maintenance is therefore low, saving costs in the long term on the upkeep of the system. Datatags supplied are guaranteed for the life of the system. The datatag is a read/write device and can be programmed with many operating parameters. The datatag can be programmed either remotely at the FACT or at the PC.

**Datatag is Robust,Reliable and Easy to use**



**DATATAG** - Shown life size designed to fit on a standard keyring.





**Base Fixing Locations**

## REPORTING

For reporting purposes data is downloaded from the FACT via a communication link to an existing central PC running windows based **VECTEC FM** software that allows reports to be viewed and / or printed from an existing PC / Printer set-up.

The **VECTEC ALPHA** incorporates vehicle / driver messaging. A message can be programmed at the **VECTEC FM** software and sent to the FACT. The next time the relevant datatag is used at the FACT a message will be displayed.

The System has a memory capacity of 2,000 transactions between downloads to the PC, these are stored in non-volatile memory that does not require a battery back-up, which, means even in the event of a mains power fail the system will retain all data.

The **VECTEC ALPHA** incorporates a backlit wide viewing angle graphic display.

## Communications

The **VECTEC ALPHA** can support a number of communication methods.

Direct Wire - RS485 , RS232 . - GSM Modem - Serial Modem - Radio Modem - Network Interface allowing the VECTEC ALPHA to form part of a LAN / WAN.

**VECTEC** have improved on the standard for data - download, the traditional method of dealing with a fuelling transaction once it has been down-loaded to a PC has been to delete it from the FACT. The **VECTEC ALPHA** identifies all transactions as having been downloaded and stores them at the FACT, enabling fuelling transactions to be downloaded again in the event of a PC failure.

## Alpha - Integrated Fuel Pump / Fuel Management System Single pump operation Heavy Duty Usage - specification

### Pump Specification

The pumping unit is a 70 Litre Per Minute fuel pump designed for commercial transport organisations for use with road diesel (Derv). A three metre hard wall hose and ZVA auto cut off nozzle are supplied as standard, we can supply a longer hose if required. The unit uses a three piston displacement meter to ensure overall accuracy of fuel dispensed. The meter is forecourt accuracy +/- 0.5% which is achievable over all dispensing speeds. The **VECTEC ALPHA** incorporates an air separation unit.

**Pumping Unit:** Belt Driven with Air Separation

**Motor:** 240v Single Phase rated at 10 amp.

**Meter:** 3 Piston Displacement Meter ( Forecourt Accuracy ) +/- 0.5 %

**Cabinet:** Stainless Steel with lockable front door.

**Display:** Electronic LCD Graphics Display with Backlight. Shows up to 9,999.9 litres

**Period Totaliser:** Shows up to 9,999,999 Litres.

**Lifetime Totaliser:** Shows up to 9,999,999 Litres.

**Pump Speed:** Standard 70 Litres Per Minute. ( available in 90lpm Option)

**Standard Equipment:** ZVA Auto - Cut Off Nozzle. 3 metre Steel Braided Hose.

### Construction

The **VECTEC ALPHA** is manufactured entirely from stainless steel. The unit is sturdy, robust and designed to operate in harsh environments.



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