



# Velcon Contaminant Analyzer

## VCA

## Final Protection from Contaminated Fuel

### FEATURES

- Differentiates between free water and dirt in fuel, and can detect both simultaneously.
- Modular user readout, showing free water content in ppm (parts per million) and particulate solids in mg/l (milligrams per liter.)
- Flow sensor operates VCA only during fueling (patent pending)
- Visual alarm and deadman cutoff switch in case of dirty or wet fuel (includes a key operated system bypass.)
- Option to tie into data management systems for automatic reporting of fueling data.
- Automatic calibration (patent pending)
- Optional data logger to capture all fueling data on a compact flash card.
- Full flow analysis.
- No sampling errors.
- Easy installation cable/wiring



VCA in Operation at  
Dubai International Airport



Modular readout of dirt (mg/l)  
and water (ppm) readings

### DESCRIPTION

The VCA uses laser sensing technology to act as a last-stage quality check downstream of the last filtration, to insure that the fuel being loaded onto commercial airliners is clean and dry. In the event of wet or dirty fuel (or both), the system will shut down the fueling operation and alert the user with a minimal amount of contaminated fuel reaching the plane.

### BENEFITS

- Completely transparent and contained operation: initiation of operation by internal flow switch and "in-situ" calibration that does not require removal for service
- Ability to differentiate between water and particulate solids allows more efficient diagnosis of contamination source
- Automatic cutoff will stop flow as soon as wet or dirty fuel is sensed

## VCA PART NUMBERS

### VCA-XXAB

where **XX** can be any of the following:

03 – 3"

04 – 4"

06 – 6"

where **A** can be any of the following:

**F** – Flanged connection

**V** – Victaulic connection

where **B** can be any of the following:

**S** – Standard Electronics

**A** – ATEX Electronics

**U** – UL Electronics

(Note: Only standard electronics are currently available.)

### *Available Models*

VCA-03FS

VCA-03VS

VCA-04FS

VCA-04VS

VCA-06FS

VCA-06VS

## ELECTRICAL SPECIFICATIONS

- 12 VDC, 0.8-1.2A – Input
- Alarm/Deadman cutoff signal:
  - 12 VDC, 0.8 – 1.2A – Output
  - Must have access to dead man control circuit
- VCA Override - Manual Key Switch



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