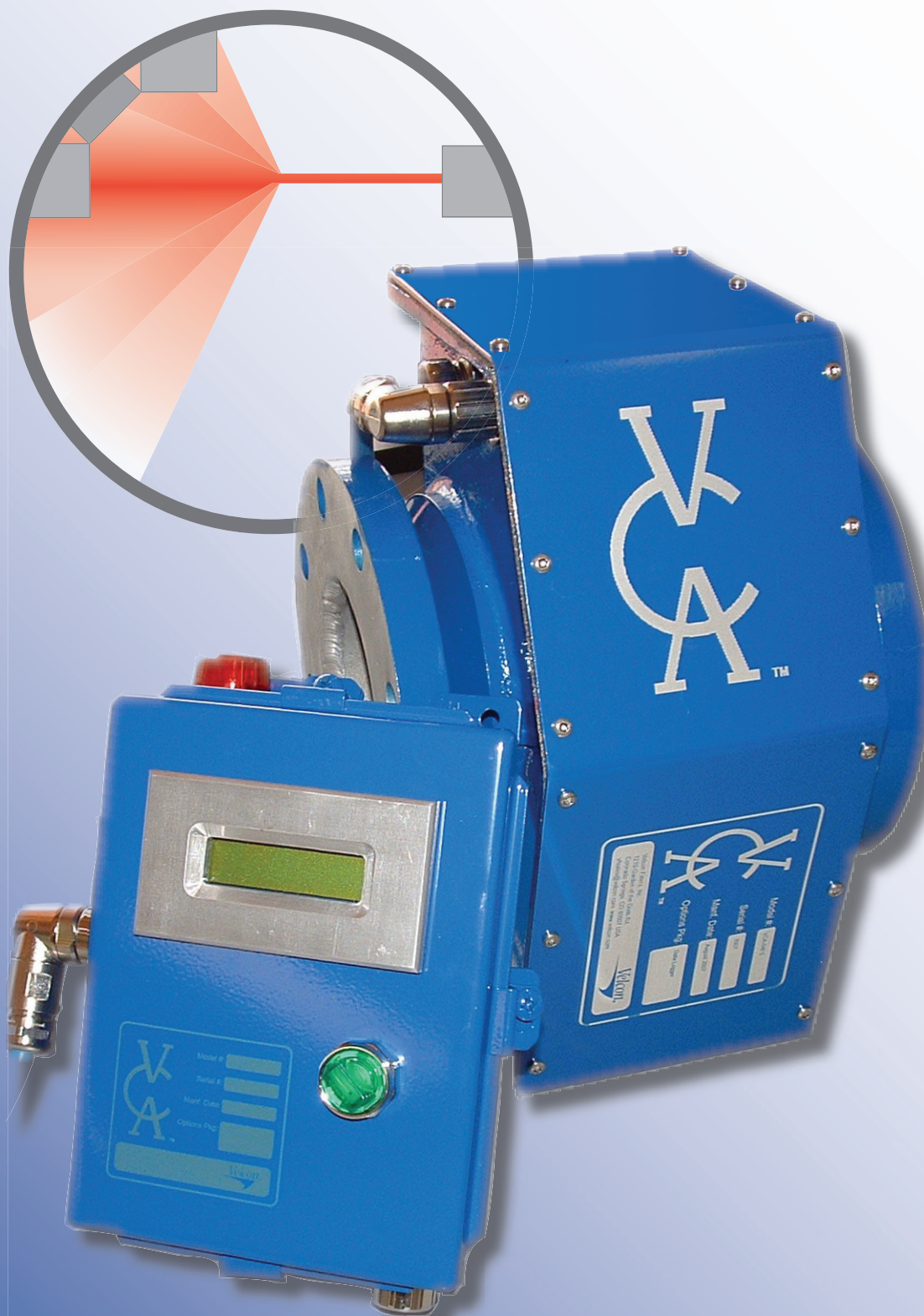


Velcon®

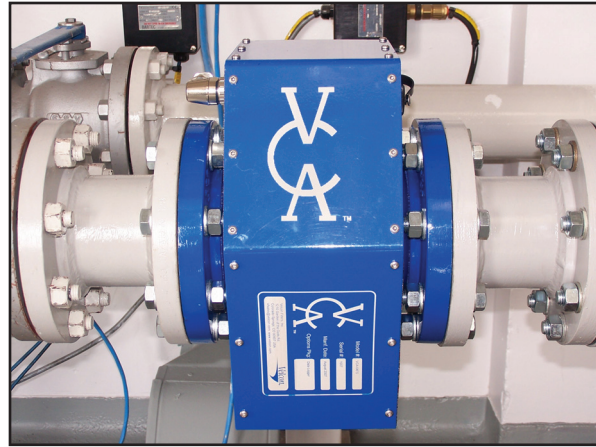
Velcon Contaminant Analyzer VCA™



Final Protection from Contaminated Fuel

BENEFITS

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



VCA™ in Fixed Installation (VCA-04FS)

FEATURES

- Differentiates between free water and dirt in fuel
 - » Detects both simultaneously
- Modular user readout, showing free water content in ppm (parts per million) and particulate solids in mg/l (milligrams per liter.)
- Full flow analysis – no sampling errors
- Minimal Pressure Loss
- Fouling Resistant Windows
- 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.)
- Automatic calibration (patent pending)
- Real-time RS-232 Data Stream to tie into data management Systems (optional)
- Real-time PC-Based Graphical User Interface for data viewing/capturing (optional)
- Data logger to capture all fueling data on a compact flash card (optional)
- Easy installation cable/wiring



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

DESCRIPTION

The VCA™ uses laser sensing technology to act as a final 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.

VCA™ DATA MANAGEMENT

VCA™ FIELD DATA REPORT

VELCON FILTERS, INC.
1210 GARDEN OF THE GODS ROAD
COLORADO SPRINGS, CO 80907
800-553-3068

MODEL NUMBER: VCA-04FS DATA FILE NAME: SDR-12F5
SERIAL #: 1234 FILE DATE: August 28, 2007
REPORT DATE: August 31, 2007 FILE TIME: ---
DATA GATHERED BY: XYZ FUEL COMPANY

1. MAXIMUM QUALITY VALUES

WATER (Inst.)	0.98 (ppm)
WATER (Avg.)	0.62 (ppm)
SOLIDS (Inst.)	0.13 (mg/l)
SOLIDS AVG.	0.05 (mg/l)

2. FUELING INFORMATION

TIME	11.67 (min)
------	-------------

3. ALARM STATUS

WATER	NONE
SOLIDS	NONE

3. GRAPHICAL DATA

Water & Solids Data

4. DATA PREPARED BY: J. STEVENS

VCA™

Water (PPM) Solids (mg/L)

Current:

Overall:

Flow: ☐ Alarm: ☐

Data Report Information – For Use With Data Logger*

- Data Name / Time / File / Information
- Current and average maximum values
- Alarm indicator
- Data graphing
- Hard copy of fueling information for files

PC-Based Graphical User Interface (GUI)

- Real-time data
- Current and average data
- Graphable, scaleable
- Flow indicator
- Alarm indicator
- Save data to disk (up to 100 data points)
- Windows® XP or higher

Third Party RS-232 Data Stream

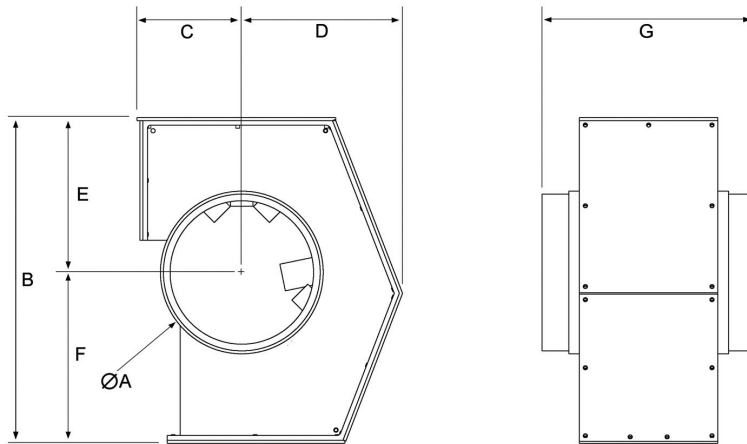
- Real-time data stream
- RS-232, 8-N-1 Format (8 bits, No parity, 1 stop bit)
- Useable by any serial data device
- Updates every 3-4 seconds
- Current and average data
- Flow / No Flow Indicator
- Alarm Indicator
- Formatted for data acquisition systems

*Data Logger can be used as a stand alone feature or in conjunction with the GUI or third party data stream

DIMENSIONAL DATA

Model Number	DIMENSIONS (Inches)						End Connections			
							Victualic (V)		Flange (F)	
	A	B	C	D	E	F	G	Pressure rating (psi)	G	Pressure rating
VCA-03	3.5	12.0	2.0	5.5	6.75	6.25	9.0	200	10.0	150/300#
VCA-04	4.5	13.5	4.25	6.25	6.75	7.00	9.0	200	10.0	150/300#
VCA-06	6.63	13.5	4.25	6.25	6.75	7.00	9.0	200	10.0	150/300#
VCA-10	10.75	21.5	10.75	10.75	10.75	10.75	-----	-----	16.5	150/300#

All VCA housing material - A0356 T6 cast aluminum



All dimensions in inches, face to face. Leave room for gaskets if using flanged ends. Refer to chart for Victualic or flanged end to end connections.

Electrical Classification

- (S) – Standard
- (F) – Factory Mutual*
- (A) – ATEX*
- (I) – IEC*

*Pending

Model Number Selection

VCA-04

F S

- (1) Choose Pipe Diameter
(See Column A)
- (2) Choose End Connection
(Flanged or Victualic - Column G)
- (3) Choose Electrical Classification

Electrical Specs

- 9-36 VDC, 21W
- LCD user display w/alarm light in NEMA 4x enclosure
- Screw connect hazardous location cabling
- LED switch or key switch

Outputs

- Lighted LCD Display
- Alarm/ deadman with off signal
 - » 12VAC, 0.8-1.2A output
 - » Visual Alarm
 - » Must have access to deadman control
- Real-time GUI
- Real-time RS-232 (8N1) Data Stream
- Data Logger/ VCA Field Data Report

Options

- Flanges (Specify Type)
- PC Based GUI
- Third Party RS-232 Data Stream
- Wireless Data Telemetry
- Data Logger
- Solar Panel Charging System
- Hazardous Location Certification Pending

Example: VCA-04FS =

1. 4.5" diameter (VCA-04)
2. flanged end connections (F)
3. Standard electrical (S)



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE**:

COMPANY HEADQUARTERS:

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1210 Garden of the Gods Road
Colorado Springs, CO 80907-3410
Phone: 1.800.531.0180 / 1.719.531.5855
Fax: 719.531.5690
e-mail: vfsales@velcon.com
www.velcon.com

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Sylacauga, Alabama

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Frankfurt/M., Germany & Singapore

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