



# EVERY™ DROP. PRECIOUS

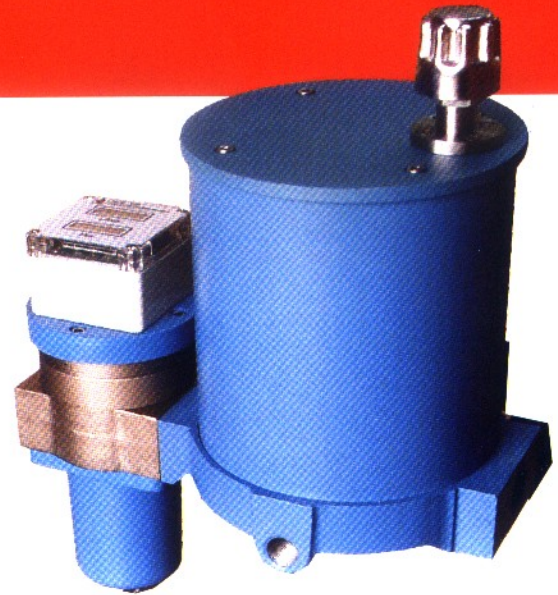


**Fuel Consumption Monitor &  
Genset Efficiency Monitor  
for Genset Application**

# Fuel Consumption Monitor [FCM]

## Introduction

The Fuel Consumption Monitor is a compact fuel flow measuring system suitable for monitoring the net fuel consumption of stationary equipment like engines, gensets, pump sets, compressors etc. incorporating Cummins PT pump fuel system diesel engines. The unit is provided with a self powered Flow Totaliser which ensures accuracy under all operating conditions.



## Specifications

- Flow Range : 6 - 500 LPH
- Accuracy :  $\pm 0.5\%$  of reading
- Service : HSD / SKO
- Operating Temp : 0 - 70 C
- Display: 8 digit LCD
- Fuel Totaliser : 0 - 9999999.9 Ltrs. (Resetable)
- Engine Run Time: 0 - 999999.99 Hrs.
- Filter Element : 25 Micron Replaceable
- Power Supply: Built in Lithium Battery. 5 Years Life.
- Mounting : MS fabricated frame for ground mounting of unit
- Pressure Drop : <1" of Hg at 500 LPH on Diesel Service

- Engine On / Off Sensor : Mounted on oil gallery

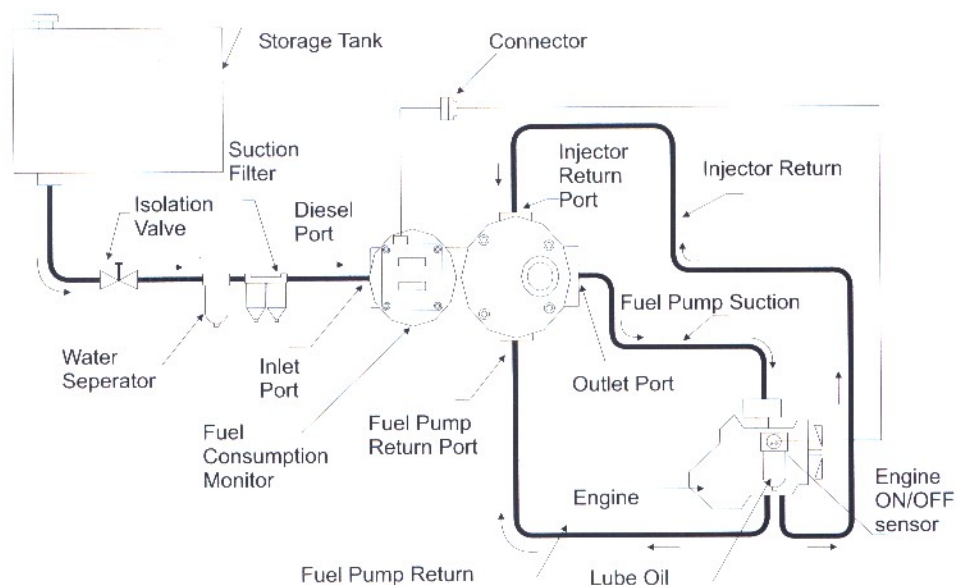
## Scope

For Diesel / SKO powered genset 62.5 - 1500 KVA Engines

## Features

- Accuracy guaranteed over 6-500 LPH flow range
- Measures net fuel consumption
- Ensures return fuel deaeration for Cummins PT systems.
- HSD, SKO, compatible
- Gravity head not required for operation
- Self powered no external power required
- Built in filter

## Schematic Installation



# GenSet Efficiency Monitor [GenLog]

## Introduction

The GenSet Efficiency Monitor is a state of the art microcontroller based measurement concept which combines genset fuel consumption and power output measurement in one single compact instrument. It also provides logged data transmission on a RS485 link to a remote PC, completely automating genset efficiency monitoring, a most vital need in power house management.

## Specifications

### ACCURACY

- Flow Measurement : ± 0.5% of reading
- Energy Measurement : ± 1.0% of reading

### DISPLAY

- Efficiency : 9.99 Unit/Liter.
- Load : 9999 kw.
- Fuel Rate : 999 LPH
- Units Totaliser : 9999999.9 KWH
- Fuel Totaliser : 9999999.9 Liters.
- Hrs. Totaliser : 999999.99 hrs.
- Real Time : DD/MM/YY Date.  
HH/MM/SS Time.

### INPUTS

- Fuel Flow Signal from Fuel Monitor.
- CT/PT Input from Genset Panel.
- Genset ON/OFF Signal from Engine ON/OFF Sensor.

### COMMUNICATION

- RS485 Communication link to PC.
- RS485-RS232 Converter for link to PC Com port.
- PC Report Genset Daily Log Report in Excel format.

Genset Daily Log						
Date	23rd August 05					
Genset	KTA1150G-1					
User	CDSS Pune					
Log Date	Avg Load KW	Max Load KW	Energy KWH	Fuel Liters	Efficiency KWH/Lt	Run Time Hrs
22/7/2005	180.34	326.24	239.3	71.57	3.34	1.33
23/7/2005	118.7	160.9	115.53	39.01	2.96	0.97



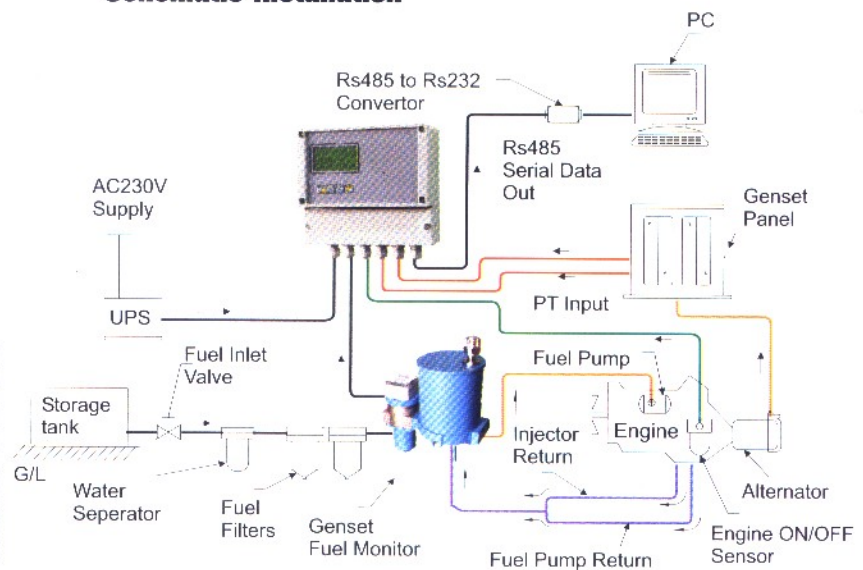
## Scope

For Diesel/SKO Powered Gensets- 62.5-1500 KVA Rating

## Features

- Directly interfaces with Fuel Consumption
- Monitor for Fuel Measurement.
- Built in Energy Transducer for energy measurement.
- Displays dynamic on line efficiency in Units/Litre for each Liter consumed.
- Directly interfaces with Engine ON/OFF Sensor for run hrs logging.
- Displays resetable & cumulative totalizer for Units, Liters & Engine Run Hrs.
- Built in Real time clock for data logging on 24 hr basis for all parameters.
- Logged data transmission to remote PC on RS 485 communication link.
- Software utility for PC provided to view logged data in Excel format.
- Provision for daisy chaining sixteen monitors to one single PC.

## Schematic Installation





Cummins Diesel  
Sales and Service ( India ) Ltd.  
35A/1/2, Erandawana, Pune 4110038

Phone: 91-20-2543 1234/2543 0066  
Fax: 91-20-25439490  
E-mail: [powermaster-india@cummins.com](mailto:powermaster-india@cummins.com)  
Web: [www.CumminsIndia.com](http://www.CumminsIndia.com)