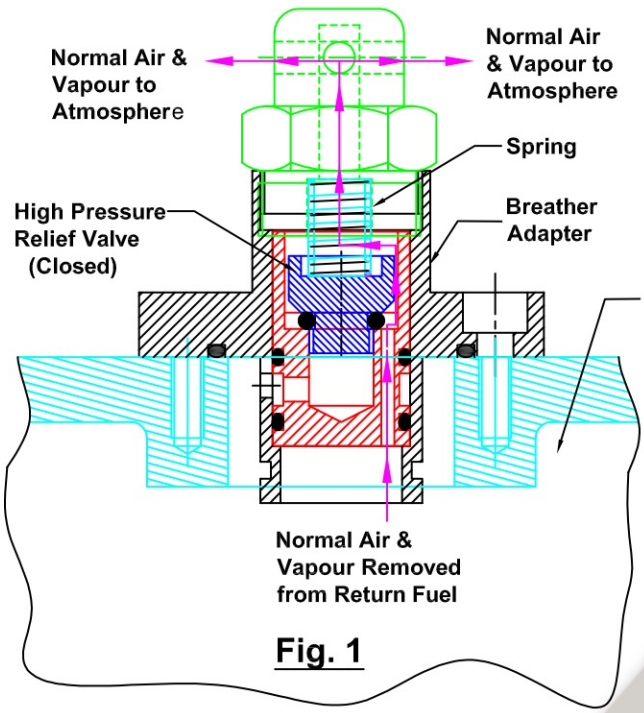


Fig. 1

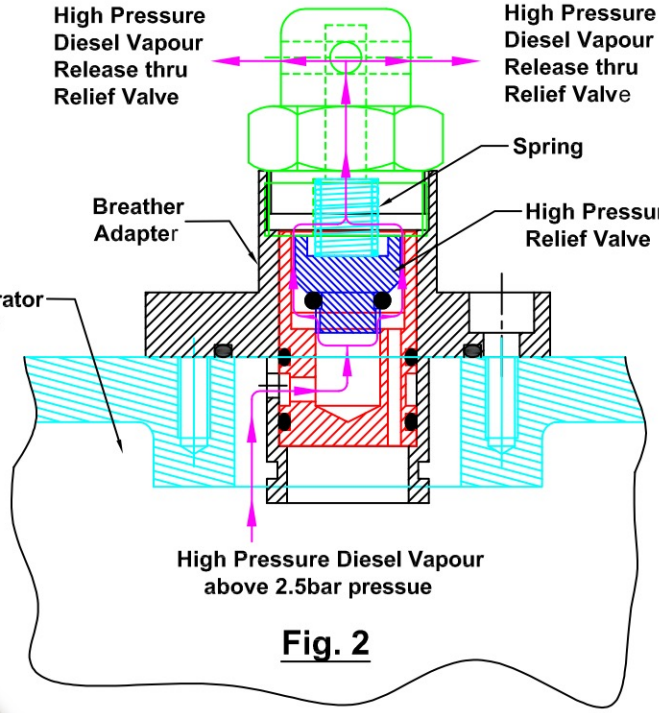


Fig. 2

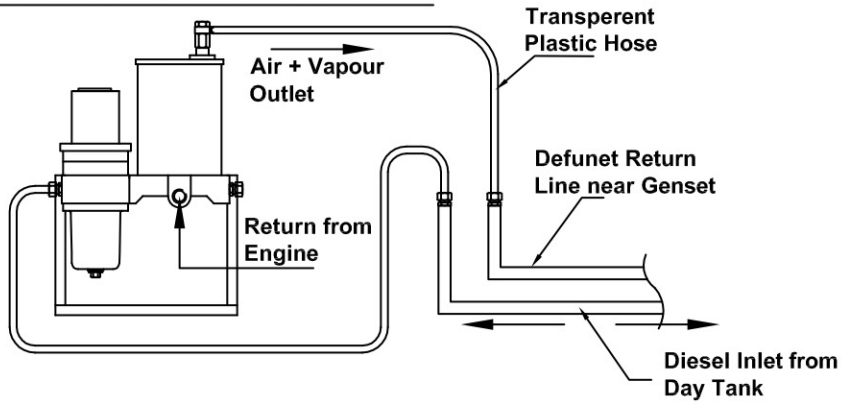
Normal Air & Vapour Release: Fig. 1.

When the engine is working normally the air and vapour brought into the Air Seperator Chamber is removed and released by the Float Mechanism continuosly as shown in fig.1. A slight wetting at the air release port is expected due to the vapour release. If continuos diesel leakage is observed from the air release, the Float Mechanism is malfunctioning and should be serviced immediately.

High Pressure Air & Vapour Release: Fig. 2.

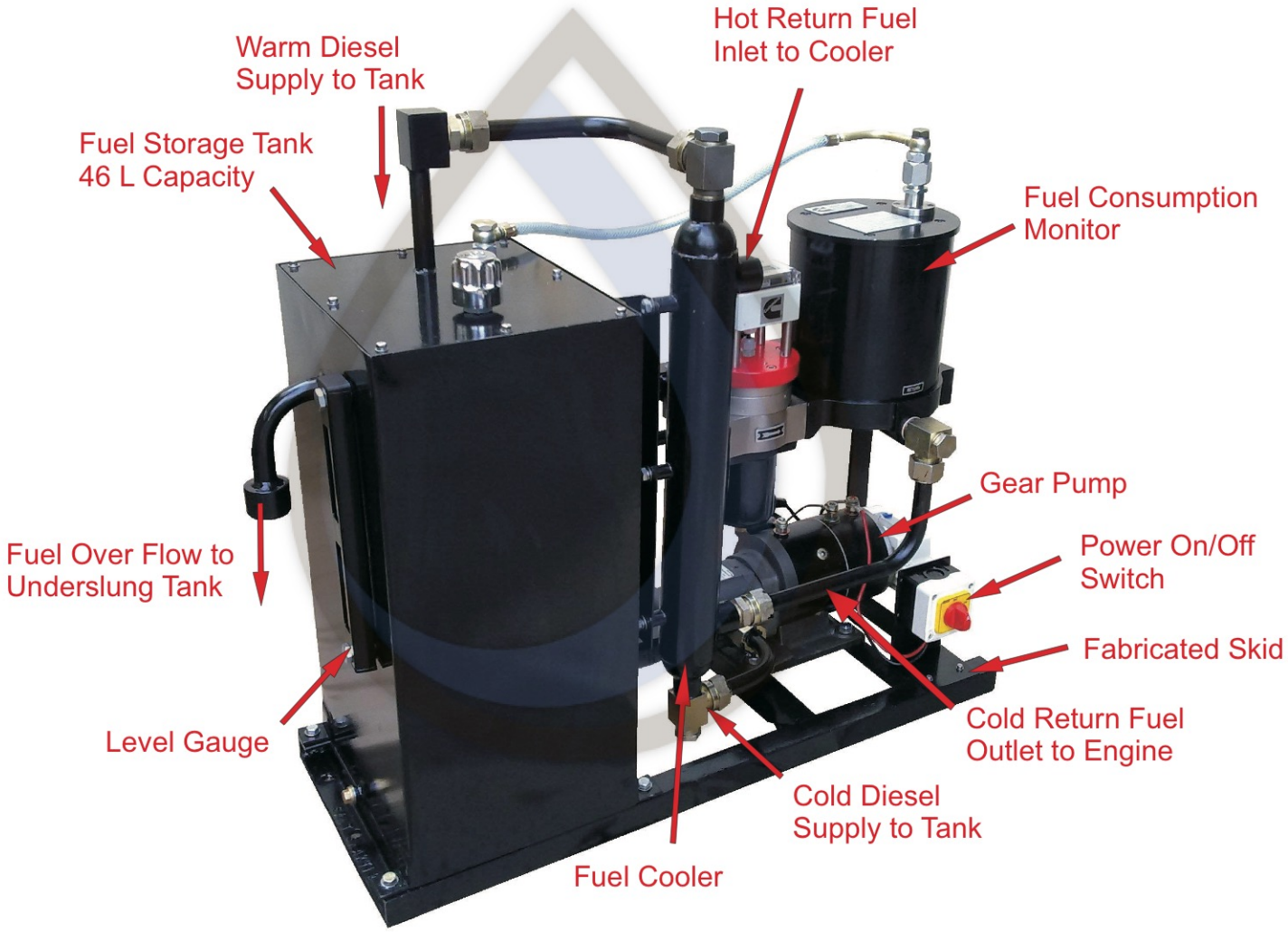
During certain low load or sudden load variation conditions it is observed that a high pressure transient is created in the Return Line. In the absence of on FCM this transient is harmlessly desipated in the storage tank. to which the Return Line is connected. However in the presence of the FCM this trensient is transmitted to the Air Seperator Chamber which can cause extensive damage like crushing of the SS Float and some times bursting of the Air Seperator Housing. To protect the Air Seperator from such an occurance a spring loaded Pressure Relief Valve is provided in the Breather Assembly as shown in fig.2. When the pressure in the Air Seperator exceeds 2.5bar the relief Valve opens mementarily and releases the high pressure in the form of a sray of liquid diesel. This occurance is normal and should not be mistaken for any malfunctioning in the FCM. The Quantity of diesel expelled is negligible. This phenomenon is found to occur very rarely. However if the occurance is frequent it is recommended to connect the Breather Assembly to the Storage Tank through a flexible hose to prevent diesel from spilling on the floor.

Recommended Installation Practise



Air & Vapour Release Machanism through FCM Air Seperator.

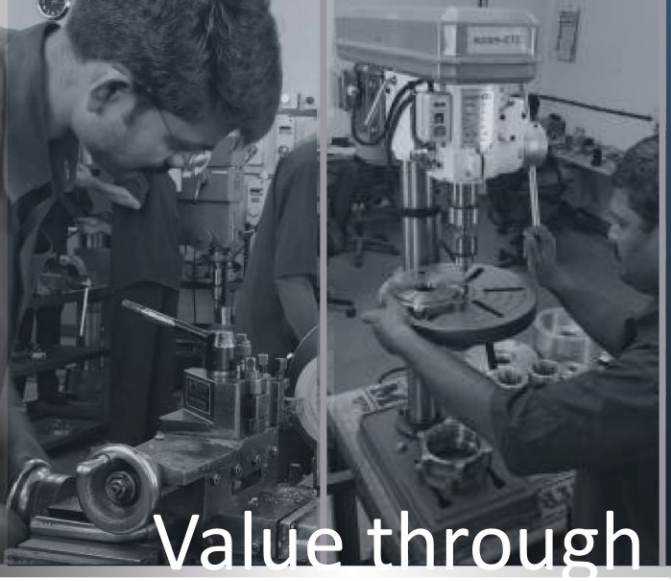
FLUIDYNE

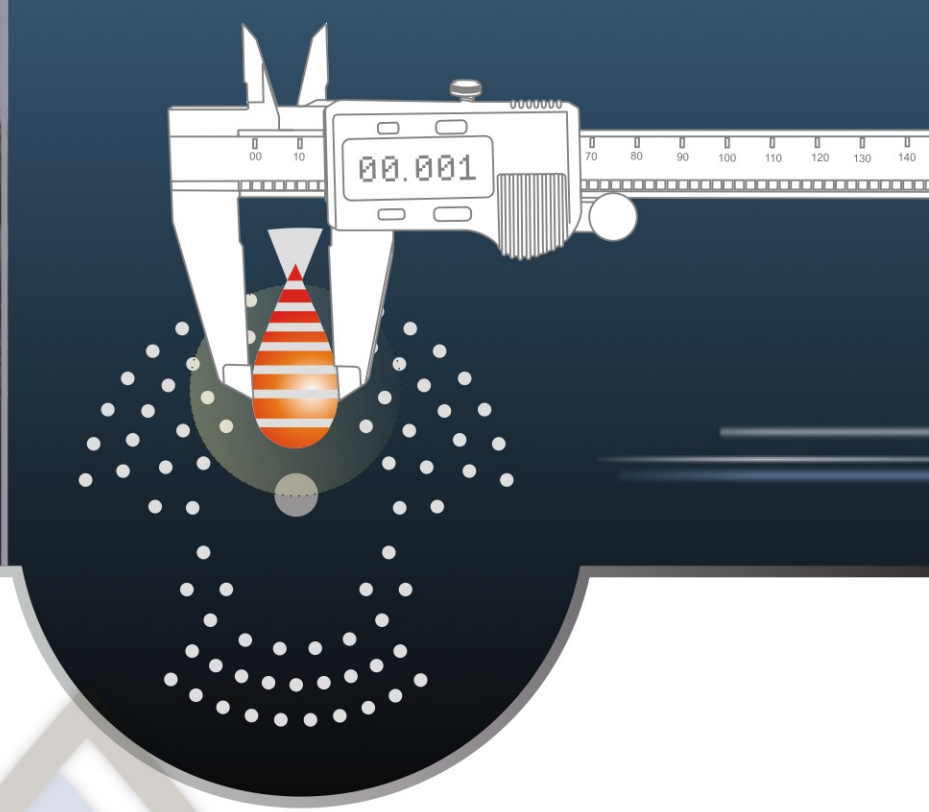

Warm Diesel
Supply to Tank
Hot Return Fuel
Inlet to Cooler
Fuel Storage Tank
46 L Capacity
Fuel Consumption
Monitor
Gear Pump
Fuel Over Flow to
Underslung Tank
Power On/Off
Switch
Fabricated Skid
Level Gauge
Cold Return Fuel
Outlet to Engine
Cold Diesel
Supply to Tank
Fuel Cooler

FLUIDYNE

Value through
continuous innovation

Solutions in Liquid Flow Measurement





Value through continuous innovation

"Knowledge of industry needs and the drive to innovate" simply sums up our mission. Most of the products we market today are uniquely designed to suit specific application needs. A relentless endeavor of providing value through innovation, by developing products based on performance feedback and meeting the highest quality norms has earned us an incomparable reputation.

Fluidyne is the dream of technocrats who have devoted their career to creating solutions in precision industrial liquid flow measurement. Our passion for creating "Value Through Continuous Innovation" reflects in our products, which offer complete solutions by themselves. Designed and built to exactly match industry needs of core applications, our solutions have a definite upper hand when it comes to precision liquid flow measurement for a wide spectrum of industry sectors.

- 20 successful years of serving both national and international customers
- Specialized in conservation of industrial fuels
- A modern and state-of-the-art production infrastructure
- Capable R&D team
- Professional approach to quality manufacturing
- Timely customer support

Passion to Deliver

The goal of the company goes much beyond providing a mere industrial flowmeter. Providing application specific solutions to satisfy needs in diverse industrial sectors is the real goal sought after. Application success many a time calls for in-depth knowledge in mechanical, hydraulic and pneumatic engineering, automation techniques, embedded electronics, software solutions and data communication which is reflected in each of the company's products.

Our Strength

Use of proven well researched technology forms the base for every product. Acquiring through application knowledge before every single product sale ensures product success and customer satisfaction. Providing timely customer support to ensure product performance, exhaustive user documentation, and onsite calibration services is our reciepe for achieving total customer satisfaction.

We Believe

Repeat customer business is a true measure of product quality and its success in today's globalized market environment. Appreciation and good will generated with repeat business is the true capital to sustain our market position and realize our growth plans.

P.D. Flowmeters

SS Flowmeter + FLP Indicator

Aluminum Flowmeter
+ Self Powered Indicator

PVC Plastic Flowmeter
+ Pulse Transmitter

Features

- Wide operating flow range 3 – 24000 LPH
- Accuracy +/- 0.5% of reading
- Aluminium, Stainless Steel & PVC construction
- Operation up to 150^{o}C temperature
- Flameproof and weatherproof electronic enclosure
- Built in high capacity filters
- Self powered display modules available

P.D. Flow Transmitters

Flowmeter+ Analogue/
Frequency Transmitter

Flowmeter+ RS485
Serial Com Transmitter

Features

- Wide operating flow range 3 – 24000 LPH
- Accuracy +/- 0.5% of reading
- Calibrated pulse output 10 / 100 pulses / litre
- 4 – 20 mA analogue output programmable
- RS485 MODBUS serial output
- Built in high capacity Filter.

Genset Fuel Consumption Monitors

FCM for Low HP Engines

FCM For Cummins PT Based Engines

Genset Energy, Fuel & Efficiency Monitor

Features

- Directly measures net engine fuel consumption
- Accuracy +/- 0.5% of reading
- Suits engines of 15 – 3500 HP capacity
- Suitable models for any engine make
- Electronic displays with RS485 serial output
- Suits Diesel / Kerosene / LDO fuels
- Display of online efficiency KWhr/ Litre

Fuel & Solvent Unloading Systems

Barrel Unloading System

Features

- Accurate measurement for unloading tankers and barrels
- Accuracy +/- 0.5% of reading
- Suitable for gravity or pressurized decanting
- Built in high capacity filter and air separator
- Flameproof electricals for tank farm use
- Large numeral displays for easy viewing
- Rs485 serial output to PLC's or PC's

Tanker Unloading System

Dispensing Systems for Automotive Industry

Evac & Fill Dispenser

Standard Dispenser + Buffer Tank

Used Oil Collection
& Filtration System

Features

- Suitable for dispensing lubes, fuels, coolants, trans fluids
- Accuracy +/- 0.01 litres / batch
- Cp/Cpk ≥ 1.66
- Evacuation based systems for brake oil / clutch oil / P.S. Oil
- Zero drip pneumatically actuated nozzles
- Combined used oil filtration and dispensing systems
- Barcode scanners, label printers, ethernet connectivity options available

Diesel Dispensing & Preset Batching Systems

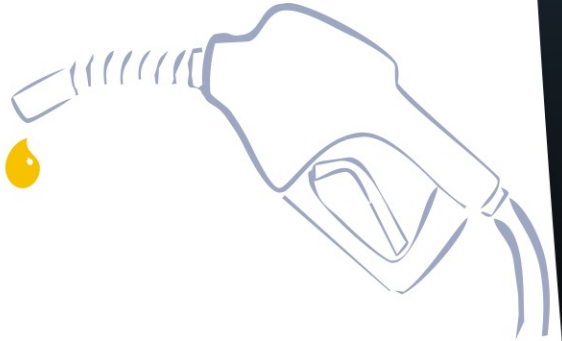
Diesel Dispenser

Mobile Diesel Dispenser

Preset Batching System

Features

- Inhouse and mobile dispensing of diesel fuel
- Accuracy +/- 0.5% of reading
- Large numeral LCD self powered display
- Suitable for mounting on tankers, bouzers and refuelers
- AC 440V or DC 24V pump operation
- Built in Filters, Hose and Nozzle
- Flameproof Batch Controller for chemical dispensing



Liquid Filling Machines

Chemical Container Filling System

Shock Absorber Tube Filling Machine

Front Fork Filling Machine

Features

- Accurate filling of shock absorber tubes and Front Forks
- Model to suit filling of 1.0 – 35 litre chemical containers
- Accuracy of filling +/- 1.0 Ml or 5.0 Ml per batch
- Cp / Cpk ≥. 1.66
- Zero drip dispensing nozzle
- Built in SS storage tank with pump
- Choice of absolute filtration up to 3.0 micron

Mobile Fuel Monitoring Systems

Data Collection Unit

FCM For Medium HP Engines

Features

- Suitable for transport vehicles, mining and construction machines
- Accurate measurement of fuel consumed and distance traveled
- Measurement of fuel filled and lat / long position
- Data logging in real time
- Manual data transmission to site PC
- Wireless data transmission through GSM network to remote server
- Data storage in non editable data base.

FCM For Low HP Engines

Data Transmission Unit

Product Installations

Diesel Dispensing Tractor Assembly
M&M Ltd., Rudrapur

Ethylene Oxide Reactor Charging
Dimple Chemicals, Pune

Fuel Metering System on Bouzer Ashok Leyland
Chasis Export to South America

15 KVA Genset Fuel Monitor Accuracy Validation
KOEL, Pune

Engine Oil Dispenser Eagle Engine Assembly Line
M&M Ltd., Igatpuri

Fuel Monitoring of Volvo Dumper
HCC Vizag Project

Railway Power Car Fuel Monitoring
Tikiapara Loco Shed, Kolkata

Oil Flow Transmitter
M&M Ltd., Mumbai

Furnace Oil Measurement
J. G. Chemicals, Kolkata

Sulphuric Acid Measurement
Grauer & Weil Ltd., Vapi

Fuel Monitoring of Railway Traction Engine
South Eastern Railway, Hyderabad

Genset Fuel Monitor
Cummins 1500 KVA
Vodafone, Varanasi

Mobile Diesel Refueling India Cements,
Dalavoi

Chemical Container
Filling Grauer & Weil Ltd.
Himachal Pradesh

Genset Efficiency Monitoring
HLL Urai, M.P.

Test Bed Fuel Monitoring
Cummins India Ltd., Pune

FLUIDYNE

Fluidyne Control Systems (P) Ltd.
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Email: fluidyne@vsnl.net

www.fluidyne.co.in

JUICE 09/10/1000

Series 6680 : Portable Engine Fuel Consumption Monitoring Testkit.

Test Kit for 15-150 HP Engines

Test Kit for 50-1500 HP Engines

Introduction

Fluidyne Series 6680 Portable Fuel Monitoring Kits offer a very convenient and accurate method of measuring diesel engine fuel consumption in actual working condition of engine driven machinery. Compact design, custom built, sturdy carrying case, and user friendly operation are highlights of the product.

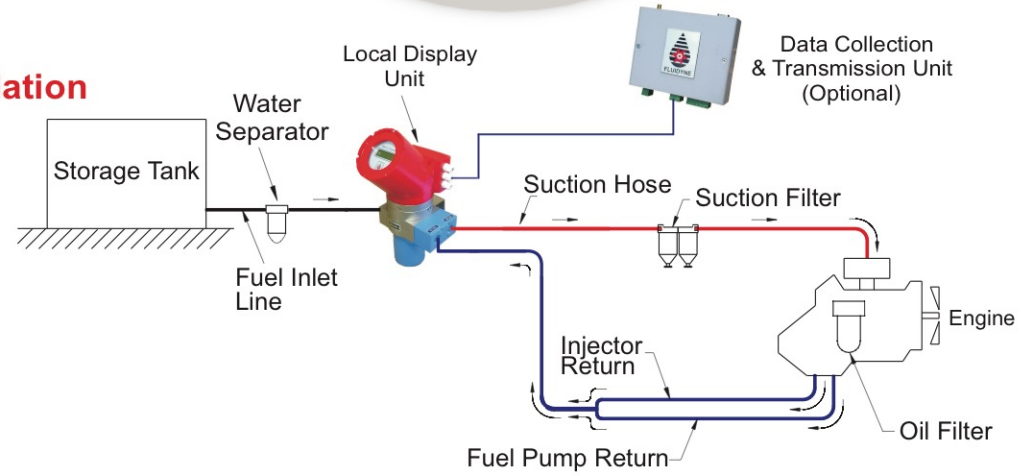
Features

- Suits Engine capacity range for 15 - 1500 HP.
- Guaranteed accuracy of +/-0.5% of reading.
- Provides net engine fuel consumption.
- Suitable for all makes of fuel injected engines.
- Available in two ranges 15-150 HP & 50 - 500HP.
- Precision positive displaement flowsensor.
- Convenient package in sturdy Aluminium carrying case.
- Testkit includes routine spare, fittings and tools.
- Accuracy traceable to National Standards.
- Choice of Display Unit or Remote Data Transmission.
- Light weight and most suitable for onsite use.

Specifications

Measurement Range	: 15-150HP Engine - 3-30LHP consumption.
	: 50-1500HP Engine - 12-1500LHP fuel consumption
Accuracy	: +/-0.5% of reading.
Repeatability	: +/-0.1% of reading
Service	: Diesel Fuel
Display Parameters	: a) Fuel Consumption in Litres LC-0.01 litres
	b) Engine Run Hrs. LC - 0.01Hrs.
Data Transmission Parameters (Optional)	: a) Date (Engine Start / Stop)
	b)Time (Engine Start / Stop)
	c) Fuel consumed in litres
	d) Engine Runtime in Hrs.
Data Transmission (Optional)	: Through GSM Network available onsite
Power Supply	: 12/24V DC from Engine Cranking Battery
Carrying Case Dimension & approx Weight	: a) 15-150 HP Engines - 450X325X175 - 6.0 Kg.
	b) 50-1500 HP Engine - 430X410X250 - 8.5 Kg.
Spares Including in Kit	: a) Filter Element
	b) Hose Fittings

Installation



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www.fluidyne.co.in

Series 6601 : P. D. Flow Transmitters

For Automation with PLCs / SCADA Systems / Industrial PC

FLUIDYNE

Specifications

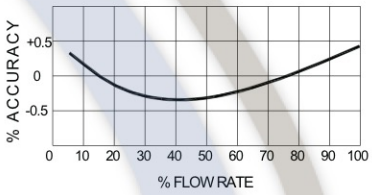
Size	: DN 06 / 15 / 20 / 25 / 40 / 50 / 80
Flow Range	: 0.6 - 24000 LPH
Accuracy	: ± 0.5% of reading
Repeatability	: ± 0.1% of reading
Operating Pressure	: 10 Kg / cm^2 Max.
Operating Temperature	: 150°C
Filter Mesh Size	: 150 micron SS Mesh Reusable Type
Analogue Output	: 4 - 20 mA
Frequency Output	: a) 10 Pulse / Litre b) 1 Pulse / Litre
Serial Data Output	: RS485 / MODBUS RTU / ASCII
Power Supply	: a) AC 230V 50 Hz b) 24V DC

Introduction

Fluidyne Flow Transmitters provide ideal flow measurement solution when precision flow sensors are required to be interfaced with Industrial control and automation systems. A choice of analogue, frequency and serial data outputs provides all the variety required for any application in the Industry.

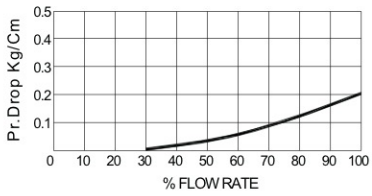
TYPICAL ACCURACY CHARACRERISTICS

Test Fluid : Diesel



TYPICAL PRES. DROP CHARACRERISTICS

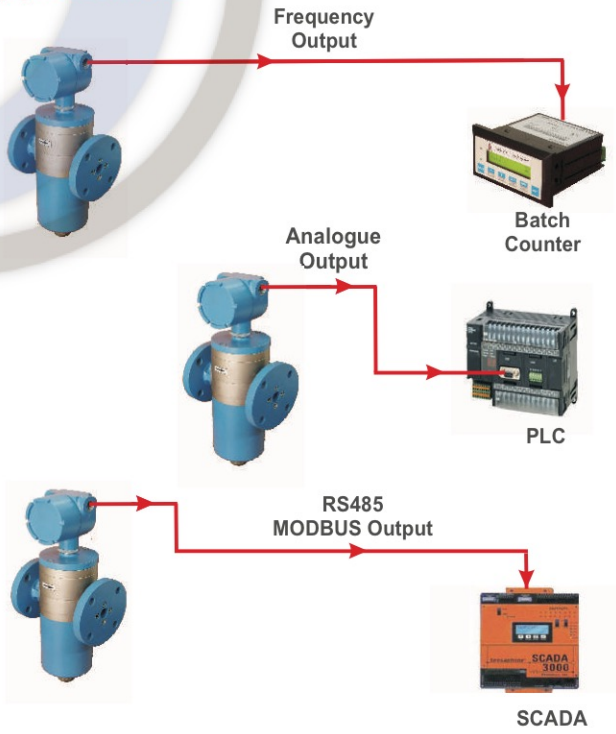
Test Fluid : Diesel



Features

- Precision Positive Displacement Flow Sensor
- Wide operating flow range
- Guaranteed accuracy of ±0.5% of reading.
- Low Pressure drop allows gravity head operation
- Max. operating temp 150°C
- Flame proof and Weather proof Transmitter Enclosure
- Built in high capacity wire mesh filter
- Calibrated Pulse Output
- 4-20mA Analogue Output
- RS485 / MODBUS Serial Data Output
- Stainless Steel & Plastic builds to suit corrosive liquids

Applications



Size Vs Flowrange Table

Flowmeter Size NB	Operating Flow Range LPH
Dn06	3-60
DN15	60-600
DN20	150-1500
DN25	240-2400
DN40	600-6000
DN50	1200-12000
DN80	2400-24000

Fluidyne Control Systems (P) Ltd.

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E-mail: fluidyne@vsnl.net

www.fluidyne.co.in

Series 6610 : PC Compatible P. D. Flowmetering System

For Fuels/ Solvents / Water / Chemicals / Industrial Liquids

Introduction

FuelLog is an innovative combinations of precision flow measurement technology with state of the art electronic serial communication transmitter and software utility compatible with all PCs It provides real time data logging directly on the PC with the added benefit of automatic generation of daily and monthly usage reports making all display based flow meter technology completely obsolete. Networking of multiple Flowmeters with one single PC actualy reduces installation cost compared to standard Flowmeters while providing unparallelled reliability, accuracy and ease of use.

Features

- No manual logging
- Direct PC interface
- RS485 Serial Com up to 1KM distance
- One PC to 16 Flowmeters network
- PC software utility provided
- Day / Month / Year wise usage reports in Excel
- Local Display optional
- MODBUS RTU output optional

Typical Industrial Applications

- Tanker Unloading
- Genset Fuel Consumption
- Boiler / Furnace Fuel consumption
- Vehicle / Forklift refueling
- Lube Oil / Solvent issues
- Test cell Fuel Consumption
- Assembly Line Fuel / Oil Dispensing
- Solvent / Chemical Transfer to reactors

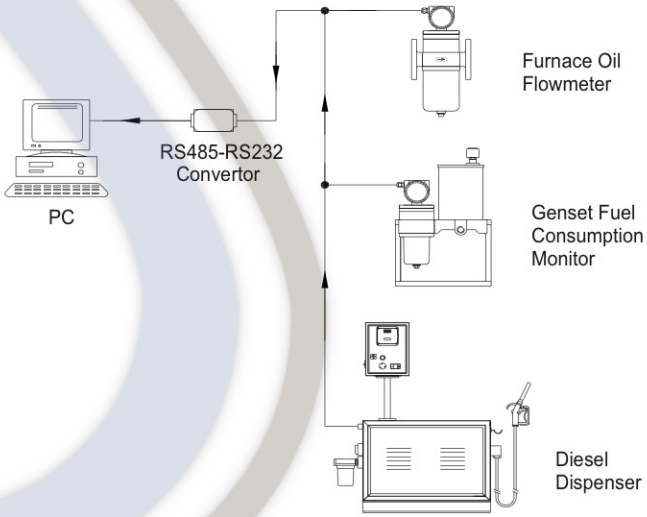
Size Vs Flowrange Table

Flowmeter Size NB	Operating Flow Range LPH
DN06	3-60
DN15	60-600
DN20	150-1500
DN25	240-2400
DN40	600-6000
DN50	1200-12000
DN80	2400-24000

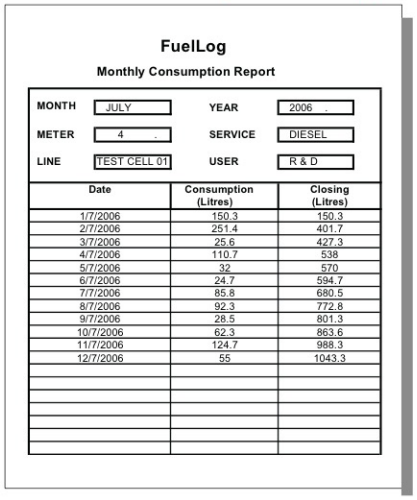
Specifications

Flowmeter Used	: Fluidyne Series 6600 P. D. Flowmeters
Measurement Range	: 3-24000LPH
Measurement Accuracy	: ± 0.5% of reading
Liquid Compatibility	: Fuels/Lubes/Solvent/Water/Corrosive Chemical
Serial Data Transmission	: Hardware Protocol : RS485 Software Protocol : Proprietory
Software Utility	: 'FuelLog' in Visual C++ Disc Space Occupied : 1MB
Database	: MS Access
PC OS Compatibility	: Window 98 to Window XP
Max. No of Meter Network	: 16
Report Generated	: Daily / Monthly / Yearly Usage
Report Format	: EXCEL

Typical Network



Fuel Consumption Report



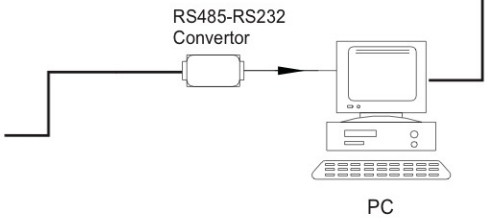
FuelLog

Monthly Consumption Report

MONTH: JULY | YEAR: 2006
METER: 4 | SERVICE: DIESEL
LINE: TEST CELL 01 | USER: R & D

Date	Consumption (Litres)	Closing (Litres)
1/7/2006	150.3	150.3
2/7/2006	251.4	401.7
3/7/2006	25.6	427.3
4/7/2006	110.7	538
5/7/2006	32	570
6/7/2006	24.7	594.7
7/7/2006	85.8	680.5
8/7/2006	92.3	772.8
9/7/2006	28.5	801.3
10/7/2006	62.3	863.6
11/7/2006	124.7	988.3
12/7/2006	55	1043.3

Installation



Series 6601
P.D.Flow Transmitter

Fluidyne Control Systems (P) Ltd.

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www.fluidyne.co.in

Series 6630 : Genset Electrical Parameter And Efficiency Monitoring System

Measurement of Electrical Parameters / Fuel Consumption / Efficiency & Working Hrs.

Specifications

Display	:	LCD, 4 rows, 4 digits
	:	Lowest 8 digit for Energy / Fuel / Hrs.
	:	Bar graph representation of current.
Input Type	:	a) 3 3/4 wire, 2 3wire, 1 2 wire
	:	b) Pulse input from Fuel Consumption Monitor
Input Voltage	:	19 to 519V AC (phase to phase) 50/60 Hz
	:	11 to 300V AC (phase to phase) 50/60 Hz
Input Current	:	1A / 5A Max (External CT for current more than 5A)
Resolution	:	For Energy - 0.01K, 0.1K, 1K, 0.01M, 1M, 10M (Depending on CT ratio PT ratio) For Power, Voltage, Current - Auto Resolution For Power Factor - 0.001 For Fuel Consumption - 0.1 litre For Engine Run Time - 1.0 minutes For Efficiency - 0.01 kwh/lit.
Measuring Parameters	:	Voltage (P-P/P-N) (Individual / Average) Current (I1, I2, I3) (Individual / Average) Frequency Power Factor (Individual / Average) Active, Reactive, Apparent Power (Individual / Total) Active, Reactive, Apparent Energy (Total) Fuel Consumed (Total) Run Time Hrs (Total) Efficiency (Instantaneous) a) 3 3/4 wire, 2 3wire, 1 2 wire b) Pulse input from Fuel Consumption Monitor
Accuracy	:	Voltage (L-N / L-L), Current = 0.5% of FS Power Factor - 0.01% PF Frequency - 0.1% For V>20V L-N V>25V L-L Power (KW, KVA, KVAR) - Class 1 Active Energy - Class 1 Reactive Energy - Class 1 Apparent Energy - Class 1 Fuel - --- 0.5% of reading Run Time - --- 0.1% of reading

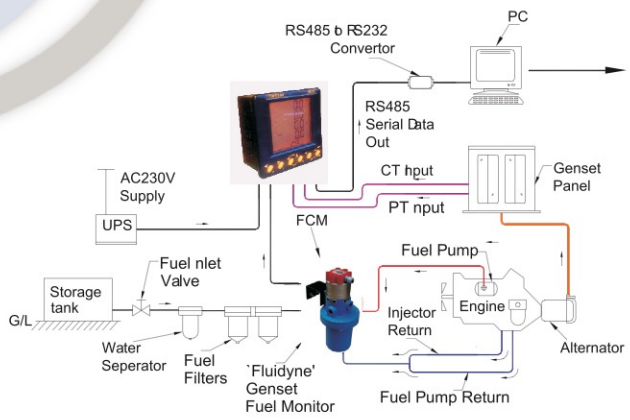
- CT Secondary Programmable between 1A-5A
- CT Primary Programmable between 1A/5A to 10000 A
- PT Primary Programmable between 100V to 5000V
- PT Secondary 100V - 500V AC (Phase to Phase)
- Fuel Consumption Monito - Model LHP for 5HP to150HP engines
  Model MHP for 50HP -1500HP Fuel injected engines
  Model HHP for 50HP -1500HP Cummins engines

Introduction

The Series 6630 is a unique concept which has combined all electrical parameters of power generation with flow measurement of fuel consumed in one single instrument. Additionally it also displays the online efficiency of the genset in kwhr/litres which is the ratio of units produced per litre diesel consumed.

Features

- Measures all electrical parameters (V, I, f, P, F, KW, KVA, KVAR, Kwh)
- Measures fuel consumed in litres
- Measures Engine Run Hrs in Hrs & Mins
- Measures genset efficiency Units/litre (kwh/litre)
- Large LCD back light display for easy viewing
- Compact size 96 96 suitable for any panel size
- Programmable CT / PT ratio
- RS 485 MODBUS communication output



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www.fluidyne.co.in

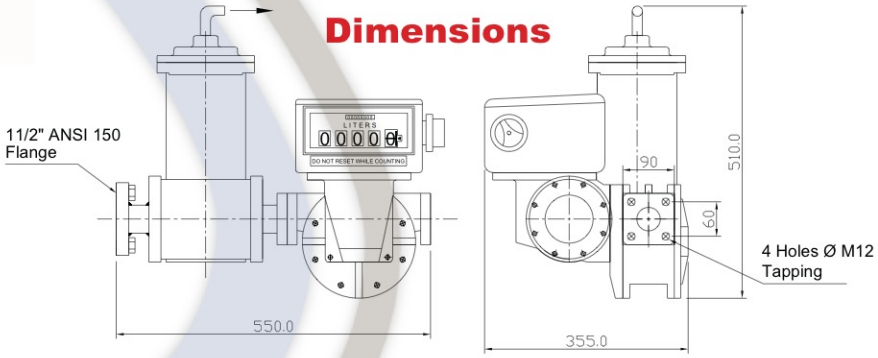
Series 6635 : P. D. Flowmeter

For very high accuracy measurements of Diesel / Petrol / Kerosene / Solvents With Large Numerical Mechanical Counter

Specifications

Type	:Positive displacement Rotary Vane.
Size	:40NB.
Flow Range	:35-350 LPM
Counter	:Veeder Root 7887 Large Numeral
Accuracy	:±0.1% of reading
Repeatability	:Better than ±0.02%.
Rangeability	:10% - 100% of max. flow range.
Max. Working Pressure	: 10 kg/cm2.
Operating Temp. Range	:30° C-70° C.
Filter Element	: 150 micron SS reusable.
Air Eliminator	:Float activated pilot operated.
Material of construction	: Meter body - Cast Iron
	Strainer A/E - Carbon steel
	Vanes - Morganite Carbon CY10C
	Seals - Nitrile
	Rotor - Aluminium
	Float - SS 316

Dimensions



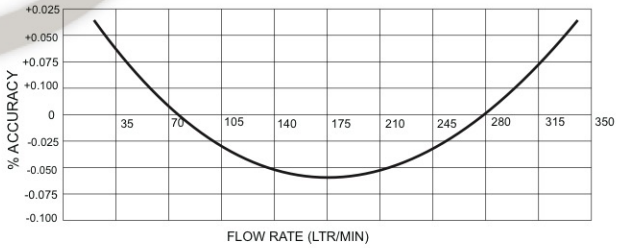
Introduction

The Series 6635 flowmeter is a very high precision high accuracy flowmeter specially designed for metering expensive fuels and solvents. Due to a consistent accuracy of ±0.1% of reading this meter can be used for custody transfer applications. It is an ideal solution for unloading fuels such as diesel, petrol, kerosene and all types of solvents.

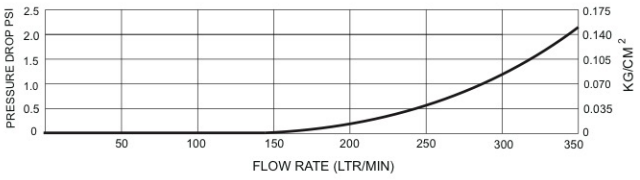
Features

- High Accuracy ±0.1% of reading.
- High repeatability ±0.02% of reading.
- Stepless calibration adjustment.
- Wear compensating vane design.
- Large numeral counter for easy readability.
- Very low pressure prop.
- Fully mechanical system safe for hazardous area use.
- Pulse output for remote monitoring optional.

Flow Rate Vs Accuracy
Test Liquid : Diesel



Flow Rate Vs Accuracy
Test Liquid : Diesel



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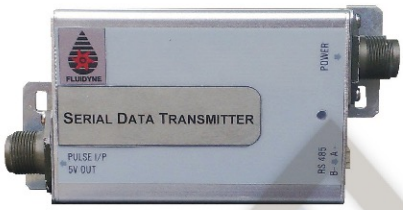
Series 6692 : Mobile Fuel Monitoring System

For Construction / Mining / Transportation Industry
Installation on Excavators / Tippers / Cranes / Hyva / Loaders / Dumpers
Serial Communication Ouput to Vehicle Tracking/ECU/Automation Systems

Fuel Flow Sensor



Serial Data Transmitter

Measured Parameters

- Fuel Consumed in Litres
- Engine Working Hrs.

Choice of Fuel Flow Sensor

- **6640** For High Pressure Fuel Injected Engines of all makes Capacity 15 - 180 HP

- **6650** For High Pressure Fuel Injected Engines all makes Capacity 100 - 1500 HP

- **6622** For Cummins PT Fuel System based Engines Capacity 50- 2000 HP

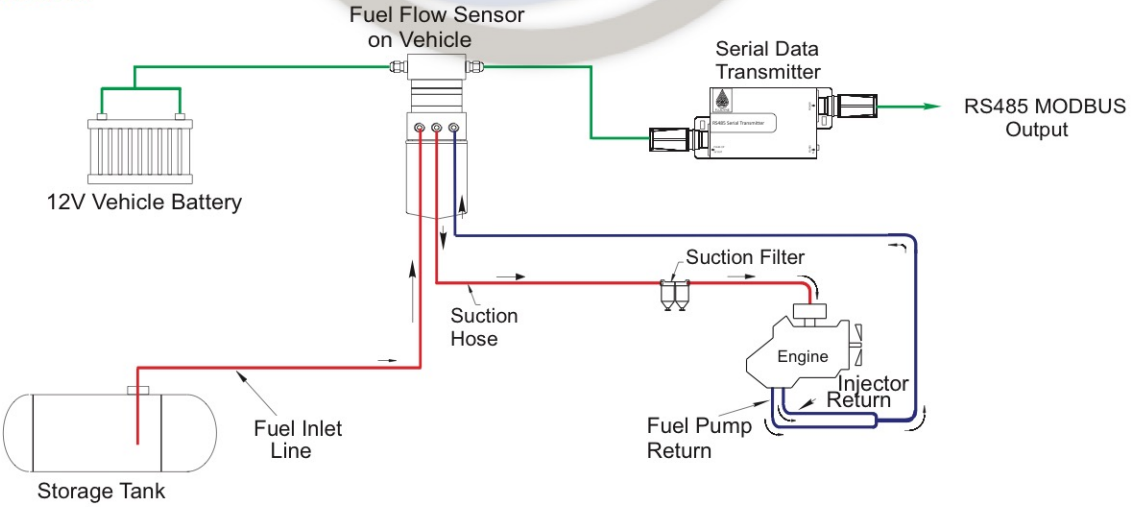
Introduction

The Series 6690 Fuel Monitoring System is a unique innovative product specially designed to provide accurate highly reliable information on complete fuel Consumption and run hrs. of diesel driven machinery. The system offers an excellent solution to monitor fuel misuse, pilferage, low utilization of machines and low operating efficiency of diesel driven machinery.

Features

- Accurately measures and logs net fuel consumed
- Measures and logs engine Run Hrs.
- Data transfer thro RS485 Serial MODBUS Communication Output.
- 12 V DC operation on engine cranking battery.
- Choice of fuel sensor to suit all types of Engines.
- Direct transmission of data from vehicle to on board Automation System.

Installation



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Series 6730 : Preset Batching System

For Batch Production with Chemicals / Solvents / Fuels / Lubricants

FLUIDYNE

Specifications

Flow Range	:	1" size - 2400 LPH Max. 1½" size - 6000 LPH Max. 2" size - 12000 LPH Max.
Batching Accuracy	:	±0.5% of reading
Flowmeter	:	Fluidyne Make Rotary Piston Type
		Material of Construction : Wetted Part - SS316 Rotary Piston - Peek
		Filter Element : 150 Micron Seals built in.
ON/OFF Valve	:	**1)** Pneumatically Actuated -1" /1½" /2" size
		Valve - Audco Ball Valve Threaded/ANSI 15O flanged
		Actuator - Avcon / Crane Double or Single Acting
		2) Electrically actuated - Avcon pilot operated make diaphragm SS constructed.
		Coil Voltage - AC 230V / DC 24V
Batch Controller	:	Make - Fluidyne
		Type - Micro controller Based
		Display - 8x2 Dot matrix LCD back light display
		Parameter Display - Preset Batch Qty - Litre Delivered Batch Qty. - Liter Cumulative Totaliser - Litre Instantaneous Flow Rate - LPH
		Relay Output - 2 Nos. 1/CO
		Enclosure - a) Weather Proof to IP 54 b) Flame Proof / Weather Proof to IS 2148 1981 1981 suitable for Gr IIA & Gr IIB area. Weather Proof to IP65.

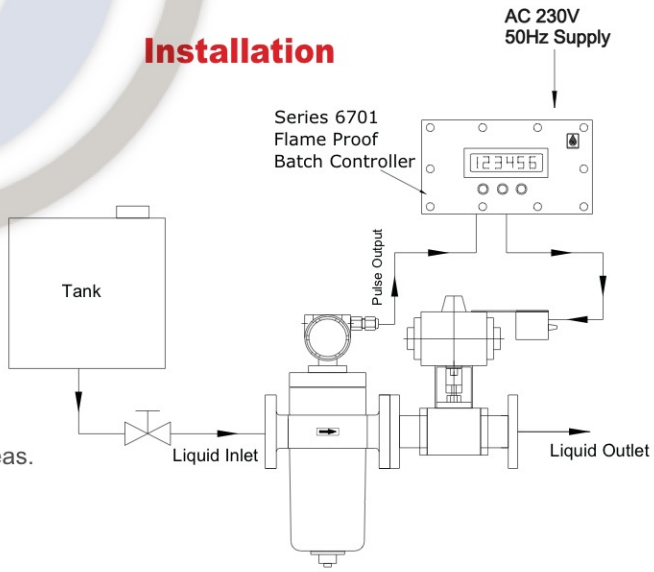
Introduction

The Series 6730 Batching System is designed for dispensing exact preset quantities of liquids to reactors, storage tanks, batch reactor vessels etc. Choice of pneumatically or electrically activated ON/OFF valves and weather proof or flame proof batch controller makes the system ideal for liquid batching application whereautomatic cut off action coupled with high accuracy is essential.

Features

- Stainless steel AISI 316 / Teflon wetted parts.
- High accuracy positive displacement flowmeter.
- Pneumatic / Electrically operated on/off valves.
- Weather Proof Batch Controller for non hazardous areas.
- Flame Proof and Weather Proof batch controller for hazardous areas.
- Batching accuracy better than ±0.5% of reading.
- Remote mounting of batch controller possible.
- Diagnostic alarm for empty pipe line condition.

Installation



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FLUIDYNE

Series 6740 : Oil Dispensing Machines

For The Shock Absorber Manufacturing Industry.

Front Fork Filling Machine
One Single Oil
Dual Channel

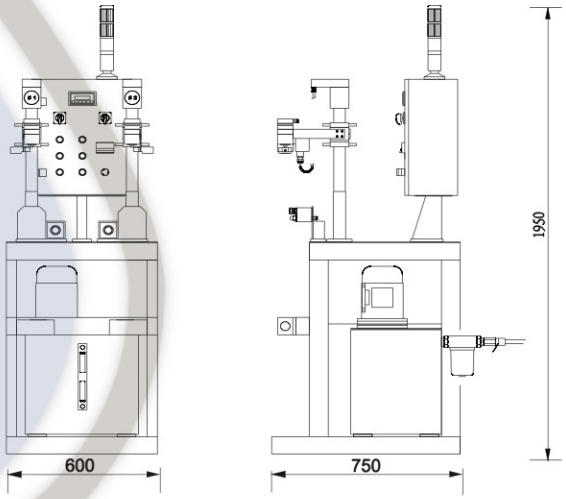
Shock Tube Filling Machine
Two Different Oils
Dual Channel

Specifications

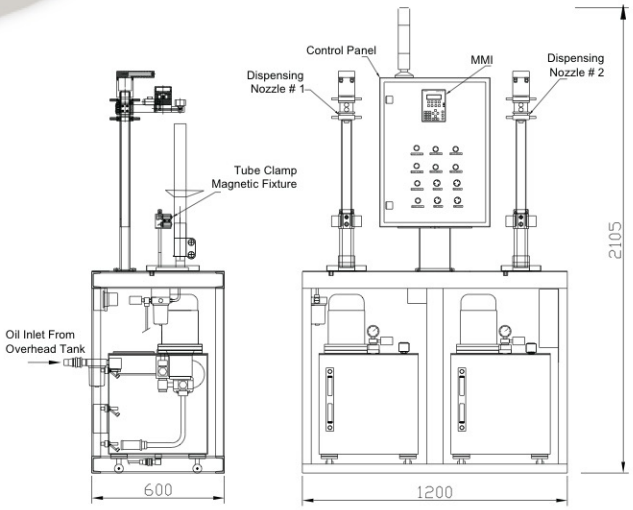
Dispensing Flowrate	: 2000 ml/min. / 4000 ml/min
Quantity Setting Range	: 5 - 500 ml
Least Count	: 1.0 ml / 2.0 ml
Accuracy	: ± 1.0 ml / ± 2.0 ml per batch
Cp/Cpk	: ≥ 1.66
Oil Storage Tank	: Built in, 100 Litre capacity
Filtration	: 25 micron built in
Prepogrammed Batches	: Up to 100 possible
Display Parameters	: *Set quantity with model identity *Delivered quantity with auto zero *Number of tubes filled *Total litres of oil filled
Floor Space Required	: 600 mm X 600 mm
Power Supply	: 3 Phase 415V AC, +/-10%, 50 Hz
Pnuematic Supply	: 4 Kg/cm with Instrument air
Disgnostic Alarms	: *Hi / Lo Oil pressure *Lo Oil level *Lo Air pressure *No Oil filled in tube

Dimensions

Front Fork Filling Machine



Shock Tube Filling Machine



Introduction

Oil filling in shock absorber tubes and front fork typically requires a filling accuracy of +/- 1.0 ml for precise control of the shock performance. Fluidyne Oil Dispensing System apart from providing a long term garaunteed accuracy of +/- 1.0 ml also provide a Process Capability Cp/Cpk ≥1.66, a concept introduced for the first time in the industry. The system provides a very high rate of production coupled with split second flexibility of changing the set quantity which is a big advantage over conventional filling techniques. The substantial degree of automation used provides a manless oil filling station on the assembly line.

Features

- 5.0 - 250 ml batch filling ideally suits shock and fork filling.
- Filling accuracy +/- 1.0 ml for any batch size with Cp/Cpk ≥1.66.
- Filling rate of 2000 ml / minute gurantees a high production rate
- Quickly adjustable filling nozzle height to suit tube and fork length
- Zero drip dispensing nozzle for clean shop floor environment
- PLC control with MMI allows finger-tip batch selection and settings
- Built in 25 micron oil filtration before filling
- Dual fork assembly filling option for improved productivity.
- 4000 ml / min filling rate optional for +/- 2ml resolution.

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FLUIDYNE

Series 6760 : Diesel Dispenser

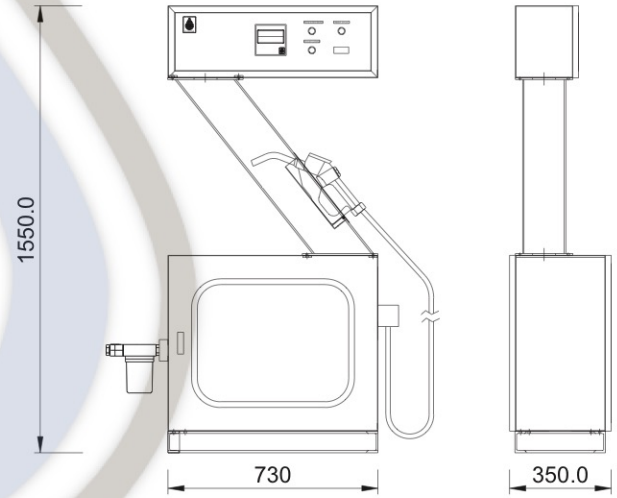
For Refueling Industrial Vehicles / Forklifts / Cranes

Specifications

Flow Capacity	: 0 - 35 LPM
Accuracy	: ± 0.5% of reading
Supply Voltage	: AC 440V 3 Phase 50 Hz
Batch Display	: a)Reset Batch - 999.99 liters
Display	: 12 mm Height LCD b)Cumulative Totaliser - 9999999 liters 12 mm Height LCD c)Power Supply - Built in Lithium Battery 5 year life
Filter Mesh	: 100 micron SS Mesh Reusable
Hose	: 3/4" Size Auto Switch Off Type
Nozzle	: R3 Grade Rubber Hose , 5 Meter Long
	: Gear Pump With1 HP Motor

The Fluidyne Series 6760 : Diesel Dispenser is a compact and economical diesel dispensing solution for company owned cars, buses, forklifts and cranes in industrial premises. Tamper proof operation and simple operating interface makes for a very attractive solution for controlling pilferage and consumption of diesel.

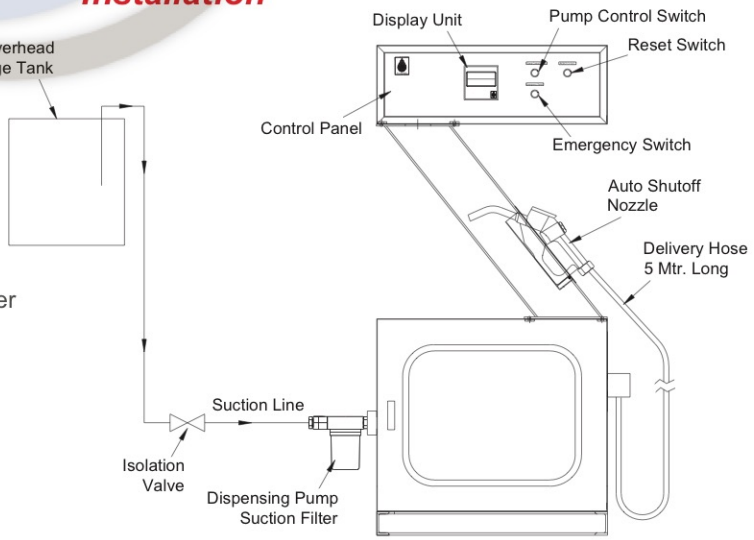
Dimensions



Features

- High capacity gear pump
- High accuracy P. D. Flow Sensor for measurement.
- Built in large capacity filter.
- Auto shut off nozzle for tank topping up.
- Resetable Batch and Cumulative Totaliser.
- Self Powered Display, No dependence on Mains Power
- Rugged construction to suit harsh environments.
- Transparent Panel conforming to TPM Norms.

Installation



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FLUIDYNE

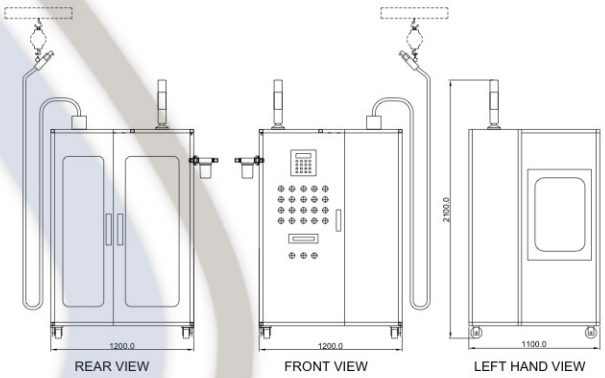
Series 6780 : Evac And Fill Liquid Dispensing System

For Brake Oil / Clutch Oil / Power Steering Oil / Coolant Filling Applications
3 Wheeler / 4 Wheeler / Heavy Vehicle Assembly Lines

Specifications

Machine Cycles	: Evacuation/Filling/Suck Back/Gun purge
Main Vaccum	: 0.5 mbar minimum
Filling Pressure	: Up to 3.5 bar adjustable.
Built In Liquid Reservoir	: 60 ltr capacity with deareation device
Vaccum Pumps And Sensors	: Leybold Germany Make
Filling Pumps And Pneumatics	: SMC Japan Make
PLC / HMI	: Mitsubishi / Siemens / Allen Bradley
Switch Gear And Motor	: Siemens Make
Power Supply	: AC 440V 3ø – 2KW connected load.
Nozzle	: To suit liquid reservoir design in vehicles.
Alarm	: Diagnostic Alarm for easy maintenance

Dimensions



REAR VIEW FRONT VIEW LEFT HAND VIEW

Introduction

The Series 6780 Dispensing System is specially designed for 100% air-bubble free filling of critical automotive sub assemblies like brake, clutch, power steering and coolant. Evacuation levels of up to 0.5 mbar are achievable along with positive pressure up to 3.0 bar. The machine, apart from filling various liquids also provides excellent quality test method of leak testing in all critical assemblies.

Details

Glass Windows to TPM Norms

Nozzle for Power Steering Oil Filling

Nozzle for Clutch Oil Filling

Features

- High evacuation up to 0.5 mbar suitable for braking systems.
- Leak check during Evacuation cycle for vaccum.
- Leak check during Filling cycle for positive pressure.
- Liquid suck back for maintaining oil level in reservoir.
- Self test for main vaccum pump efficiency.
- Light weight dripless nozzle.
- Fully automatic operating cycle, zero operator interference.
- Diagnostic alarm for easy maintenance and system fault finding.
- Compact size design confirms to TPM standards.

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FLUIDYNE

Series 7100 : Tanker Unloading System

For Unloading Tanker loads of Diesel / Petrol / Kerosene / Solvents

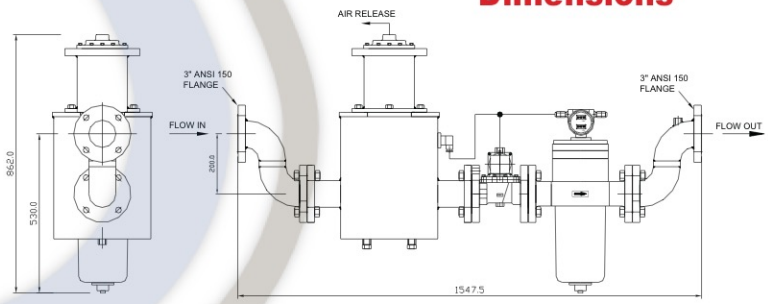
Specifications

Flow Capacity	: 400 LPH max.
Accuracy	: Better than 0.5% of reading
Flow Meter Type	: Positive Displacement Rotary Piston
Air Separator	: Float actuated mechanism ½"air release port.
Control Valve	: Diaphragm operated electrically actuated
Level Switch	: Float level switch for air separator level sensor.
Display	: 8x2 Dot matrix LCD back light display. Current total 999999.9 litres resetable Cummulative total 999999.9 litres non resetable Flow rate 999.9 LPM
Area Clarification	: Suitable for Gr IIA & Gr IIB hazardous area certified by CMRI Dhanbad.
Power Supply	: AC 230V 50 Hz mains supply
Mounting	: Fabricated Mounting Frame with grouting facility.

Introduction

The series 7100 System is specially designed for accurate measurement of liquid fuels and solvents during unloading from tankers. Accurate measurement of fluid is the only solution for cross checking the dip-rod measurement standard on tankers. The system offers excellent protection against pilferage and short supply normally encountered in this application.

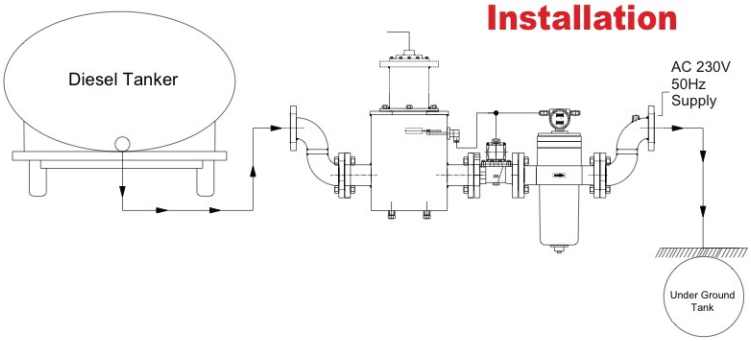
Dimensions



Features

- High accuracy positive displacement flowmeter.
- High capacity air separator.
- Control valve for ensuring 100% air elimination.
- Construction ensures system is full of liquid at all times.
- High capacity float actuated air release mechanism.
- LCD Dot matrix back light display for easy readability.
- Weather-proof and flame proof electrical fittings.
- RS485 Serial – output for PLC optional.

Installation



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FLUIDYNE

Series 8810: Used Oil Draining & Filtration System

For Automotive Gearbox/ Transmission/ Axle/ Engine Assembly Lines.

Specifications

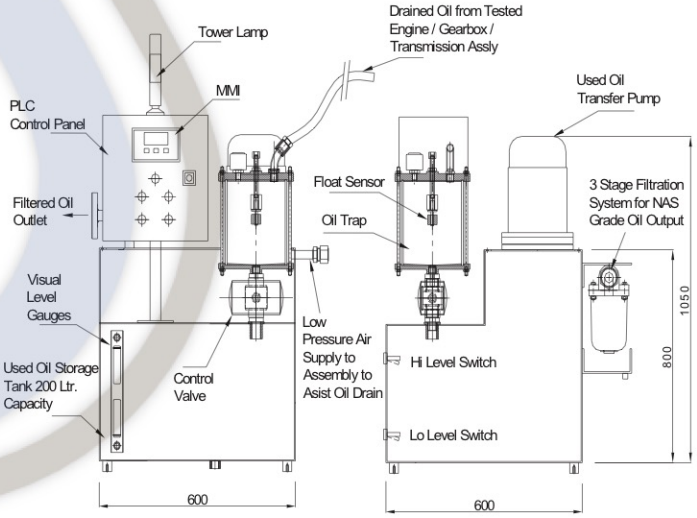
Storage Tank Capacity	: 200 Litres
Oil Inlet Filtration	: 150 Micron, Single Stage
Oil Outlet Filtration	: 10/3 Micron Absolute **OR** NAS 10/8/6 Grade Three Stage
Drain Oil Measurement	: Volumetric Measurement of Drain Oil +/-5% Tolerence
Filtered Oil Output	: 20LPM
Oil Level Control	: HI/LO Level Point Level Switches
Oil Drain Assist	: LO pressure 0.2kg/cm ^{2} output for Pressurising assembly for quick and complete draining
PLC/HMI Function	: a) Control of Air assists output b) Measurement of drained oil quantity c) Tank oil Level control d) Automatic ON/OFF of transfer pump e) Filter choked alarms f) Alarm for fault diagnosis

Introduction

The Used Oil Draining & filtration System is specially designed to remove; measure and filter used lubricating Oils after initial performance testing of Engines, Gear boxes, Transmissions, Axles etc. on automotive assembly lines. NAS Grade oil filtrations, Poka Yoke for desired oil quantity draining are some of the key design features of the system

Dimensions

Oil Draining and Filtration System



Features

- Oil storage tank of 200 litres capacity
- LO pressure air output to assist draining of assembly
- Pokayoke for drained oil qty. to ensure complete draining
- High capacity oil transfer pump
- 3 Stage Absolute /NAS Grade Oil Filtration System
- Automatic Oil filtration and oil transfer to dispensing system
- Interface facility with dispensing system
- Maximizes economy of reuse of used oil with minimum wastage
- Ensure minimal Oil residue in tested assembly

Information with RFQ

a) Type of Oil

b) Oil quantity drained per assembly

c) Level of output filtration required

OR

d) NAS level of output oil required

e) Measurement of drained oil Required/Not required

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Series 6600 : P. D. Flowmeters

For Fuels / Solvents / Chemicals / Lube Oils.

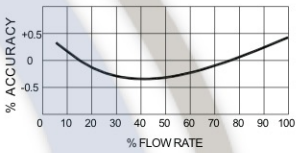
FLUIDYNE

Specifications

Size	: DN 06 / 15 / 20 / 25 / 40 / 50 / 80
Flow Accuracy	: 3.0 - 24000 LPH
Accuracy	: ± 0.5% of reading
Repeatability	: ± 0.1% of reading
Operating Pressure	: 10 Kg / cm^2 Max.
Operating Temperature	: 150° C
Filter Mesh Size	: 150 micron SS Mesh Reusable Type
Read Out Option	: a) Self Powered Totaliser b) Rate Indicator Totaliser c) Rate Indicator Totaliser + 4 - 20 mA output d) Rate Indicator Totaliser + RS485 Serial Output
End Connections	: Flange : ANSI / BS / DIN : Screw : BSP / NPT Female Threads
Material of construction	Wetted Parts : Aluminium / SS 316 / PVC : Piston : PEEK / PVC Seals : BUNA N / Viton / EPDM / Teflon

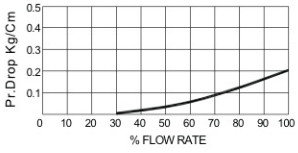
TYPICAL ACCURACY CHARACRERISTICS

Test Fluid : Disel



TYPICAL PRES. DROP CHARACRERISTICS

Test Fluid : Disel



Introduction

The Fluidyne Positive Displacement Flowmeters are based on the time tested Oscillating Piston design. A single moving component in the assembly ensures extremely reliable operation for long period of operation. Use of state of the art solid state magnetic sensor, ultra low powered electronic sensor provides for all the simplicity of a mechanical P.D. Flowmeter and the reliability of electronic sensing and read outs.

Features

- Wide operating flow range of 3.0 to 24000 LPH
- Guranteed accuracy of +/- 0.5% of reading
- Low pressure drop allows gravity head operation.
- Operation at maximum 150° C temperature possible.
- Self powered electronics ensures fit and forget operation.
- Choice of weather-proof and flame-proof electronic enclosures.
- Built in high capacity reusable wire mesh filter.
- S.S and Plastics builds to suit corrosive liquids.

Size Vs Flowrange Table

Flowmeter Size NB	Operating Flow Range LPH
DN06	3-60
DN15	60-600
DN20	150-1500
DN25	240-2400
DN40	600-6000
DN50	1200-12000
DN80	2400-24000

Applications

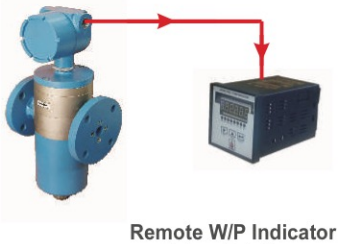
Meter + Integral W/P Indicator

Meter + Integral FLP Indicator

Meter + W/P Pulse Transmitter

Remote W/P Indicator Rate + Totaliser

Meter + FLP Pulse Transmitter



Remote W/P Indicator Rate + Totaliser + 20 mA Analog Output or Rs485 Serial Output

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www.fluidyne.co.in

Series 6622 : Fuel Consumption Monitor

For Cummins Engines / Gensets with PT Fuel System
Models NT / NTA / KT / KTA / VTA / KV

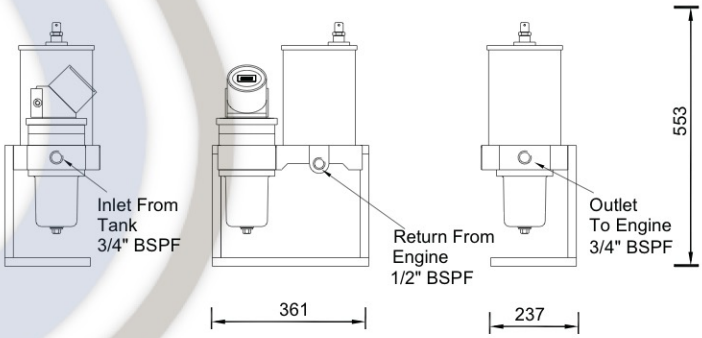
Specifications

Flow Range	: 12 - 500 LPH
Accuracy	: ± 0.5% of reading
Service	: HSD / LDO
Operating Temperature	: 0 - 70° C
Display	: 8 digit dot matrix LCD Fuel Totaliser : 999999.9 ltrs. Engine Run Time : 9999.99 Hrs.
Filter Element	: 25 micron Replaceable
Power Supply	: 12V DC from cranking battery
Mounting	: MS fabricated frame for ground mounting of unit
Pressure Drop	: <1" of Hg at 500 LPH on Diesel Service
Engine Run Time Switch	: Mounting : On Oil Gallery

Introduction

The Fuel Consumption Monitor is compact fuel flow measuring system specially designed to suit Cummins Engines with PT Fuel System for monitoring the net fuel consumption of stationary equipment like engines, gensets, pumpsets, compressors etc. After accounting for the return fuel from the engine. The unit is provided with a 24V DC powered Flow Indicator which ensures accuracy with a variety of fuels under all operating conditions.

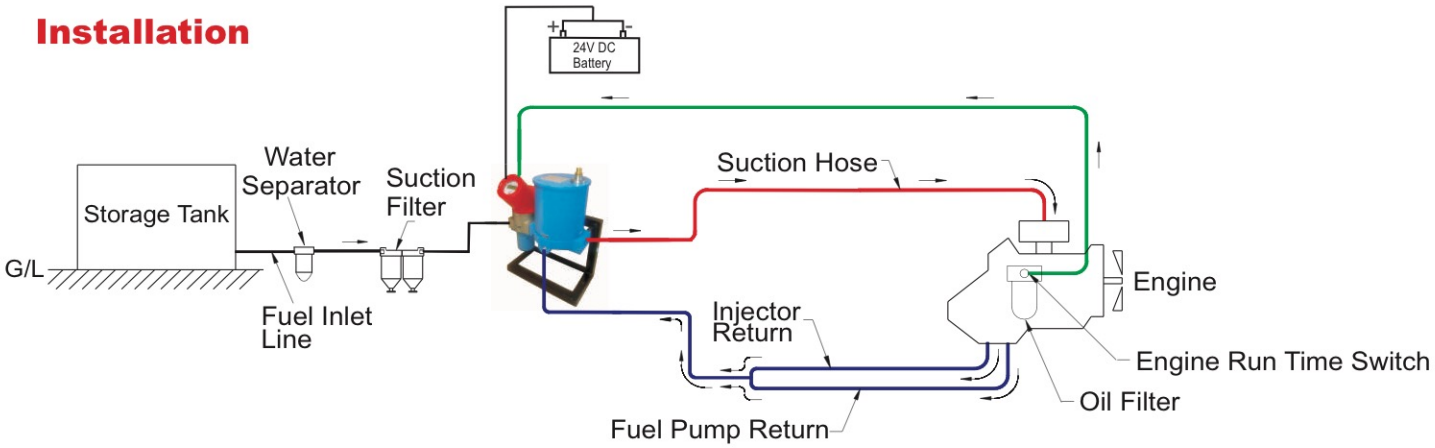
Dimensions



Design Features

- Accuracy guaranteed over 12-500 LPH flow range
- Measures net fuel consumption
- Ensures return fuel deareation for Cummins PT system
- HSD,LDO compatible
- Gravity head not required for operation
- 24VDC powered
- Built it in filter Built in reusable filter

Installation



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Series 6625 : Genset Efficiency Monitoring System

For Diesel /LDO Powered Gensets- 50-1500 KVA Capacity LT Systems

Specifications

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

Display
Efficiency : 9.99 Unit/Litres.
Load : 9999 kw.
Fuel Rate : 999 LPH
Units Totaliser : 9999999.9 KWH
Fuel Totaliser : 9999999.9 litres.
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 Transducer.

Communication : RS485 Communication link to PC.
RS485-RS232 Convertor for link to PC COM port.

PC Report : Genset Daily Log Report in Excel format.

Power supply AC 230v 50Hz mains supply.

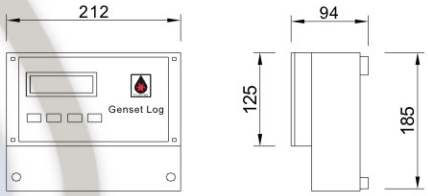
Introduction

The Series 6625 : Genset Efficiency Monitor is a state of the art microcontroller based measurement concept which combines geneset fuel consuption and power output measurement in one single compact instrument. Apart from dispaying the live on line genset efficiency in Units/Litre,it 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.

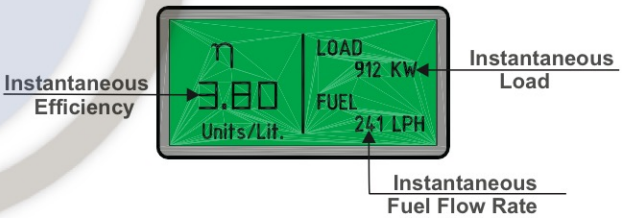
Features

- Directly interfaces with Fluidyne `Genset Fuel Monitor' for Fuel Measurment.
- Measures net fuel consumption for 50-1500 KVA Gensets.
- Built in Energy Transducer for energy measurement.
- Displays dynamic on line efficiency in Units/Litre for each Litre consumed..
- Directly interfaces with Engine ON/OFF Transduser for Run Hrs Logging.
- Displays resetable & cumulative totaliser 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 RS485 communication link.
- Software utility for PC provided to view logged data in Excel format.
- Provision for daisy chaining sixteen monitors to one single PC.

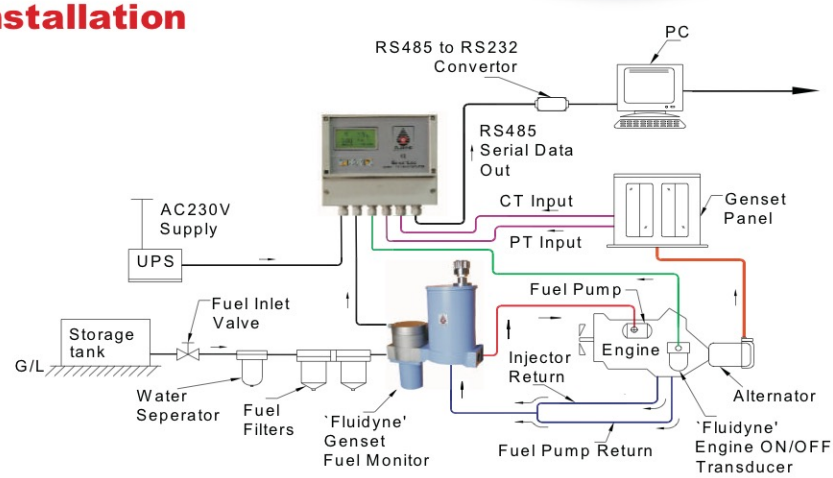
Dimensions



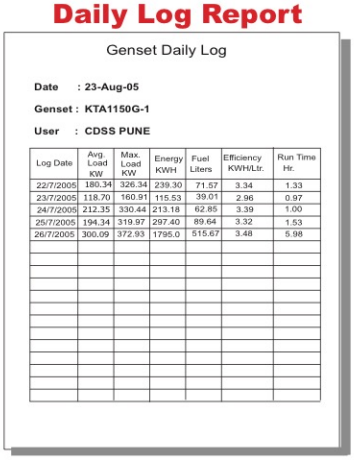
Default Display



Installation



Daily Log Report



Genset Daily Log

Date : 23-Aug-05
Genset : KTA1150G-1
User : CDSS PUNE

Log Date	Avg. Load KW	Max. Load KW	Energy KWH	Fuel Liters	Efficiency KWH/Ltr.	Run Time Hr.
22/7/2005	180.34	326.34	239.30	71.57	3.34	1.33
23/7/2005	118.70	160.91	115.53	39.01	2.96	0.97
24/7/2005	212.35	330.44	213.18	62.85	3.39	1.00
25/7/2005	194.34	319.97	297.40	89.64	3.32	1.53
26/7/2005	300.09	372.93	1795.0	515.67	3.48	5.98

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www.fluidyne.co.in

Series 6640 : Fuel Consumption Monitor

For High Pressure Fuel Injected Low HP Engines
Capacity : 5-150 HP

FLUIDYNE

Fuel Sensor

Display Unit

Specifications

Measurement Flow Range	:1-30 LPH
Accuracy	:1% of reading
Service	:Diesel
Operating Temp.	:0-70° C
Display	:6 digit 7 segment red LED Fuel Totaliser - 999999.9 lit. Engine Run Time - 999999.99 hrs/mins
Filter Element	:25 micron paper replacable type.
Power Supply	:12V DC from cranking battery
Port Size	: Inlet / Outlet / Return M 14x1.5 F
Filter Element	:25 micron paper replacable
Mounting	: Fabricated mounting bracket.

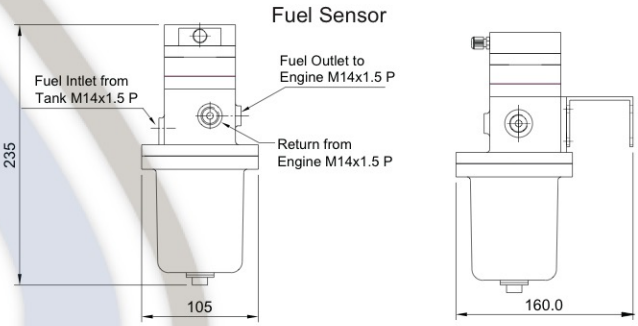
Introduction

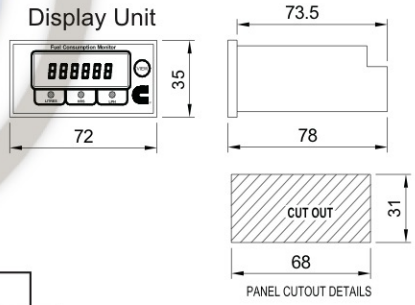
The fuel consumption monitor is a very compact and convenient fuel monitoring unit to measure fuel consumption of small gensets, commercial vehicles, construction and mining machinery, etc. The unit handles the return flow and calculates and displays net engine consumption.

Features

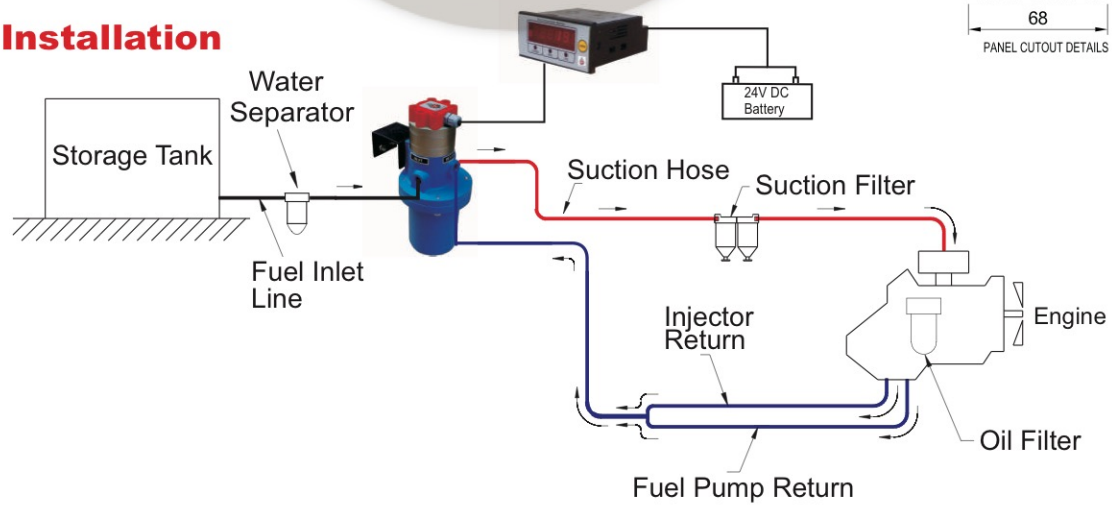
- Accuracy guaranteed over 1-30 LPH consumption.
- Measures net consumption with single flow sensor.
- Gravity head not essential for operation.
- Built in high capacity filter.
- Works on 12V engine cranking battery supply.
- Quick mounting kit provided with unit.

Dimensions





Installation



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Series 6650 : Fuel Consumption Monitor

For High Pressure Fuel Injected Engine
Capacity : 50-1500 HP

FLUIDYNE

Specifications

Measurement Flow Range	:12-500 LPH
Accuracy	:±0.5% of reading
Service	: Diesel
Operating Temp.	:0-70° C
Display	: 8x2 Dot matrix LCD back light display. Fuel Totaliser - 999999.9 lit. Engine Run Time - 999999.99 hrs/mins.
Filter Element	: 25 micron paper replacable type.
Power Supply	: 12V DC from cranking battery
Port Size	: Inlet - 3/4" BSPF : Outlet - 1/2" BSPF : Return - 1/2" BSPF
Material	: MS fabricated frame for ground mounting of unit.
Serial Output	: RS485 MODBUS RTU optional

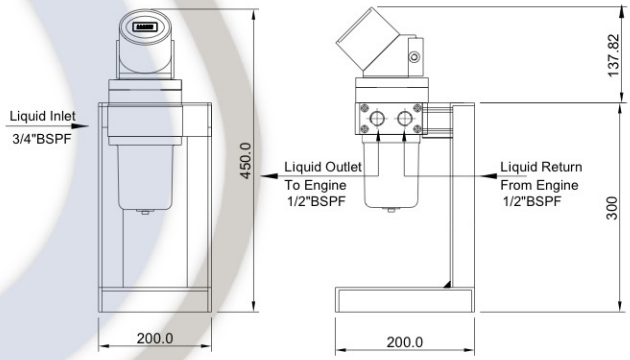
Introduction

The fuel consumption monitor is a compact fuel flow measuring unit for high pressure fuel injected engine of all makes. The unit handles the return flow and calculates and displays net engine consumption. It is most suited for use with Gensets, diesel driven machinery.

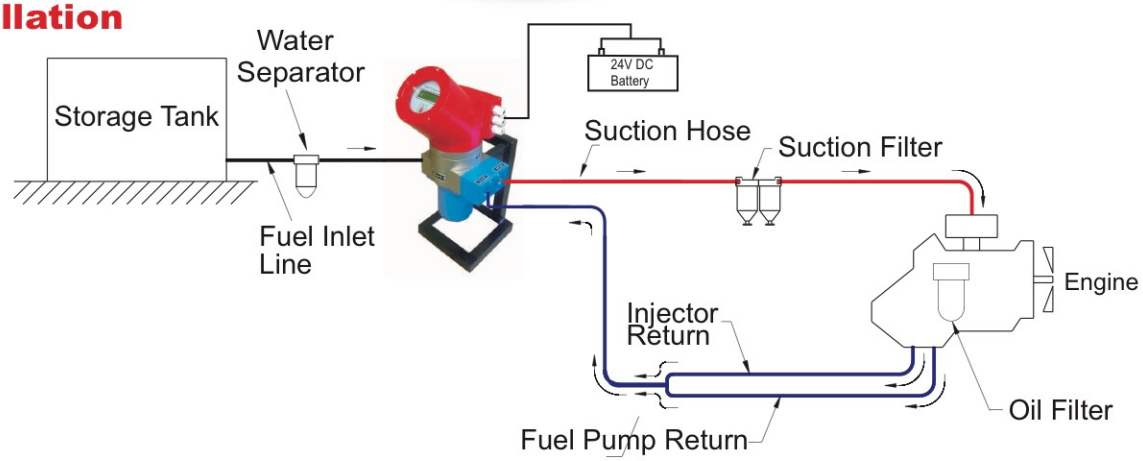
Features

- Accuracy guaranteed over 12-500 LPH consumption.
- Measures net consumption with single flow sensor.
- Gravity head not essential for operation.
- Built in high capacity filter.
- Works on 12V DC supply from cranking battery.
- Provided with sturdy mounting frame.
- RS485 Serial output interface, optional for PLC / SCADA.

Dimensions



Installation



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www.fluidyne.co.in

Series 6670 : Fuel Consumption Monitor

For High Pressure Fuel Injected High Capacity Engines
Capacity : 500-3500 HP

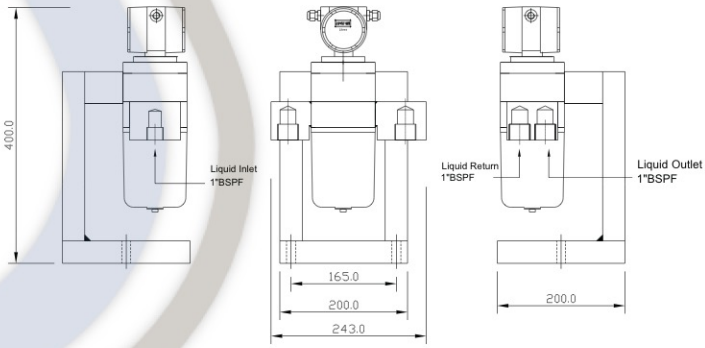
Specifications

Measurement Flow Range	:150-1500 LPH
Accuracy	:±0.5% of reading
Service	: Diesel
Operating Temp.	: 0-70° C
Display	: 8x2 Dot matrix LCD back light display. Fuel Totaliser - 999999.9 lit. Engine Run Time - 999999.99 hrs/mins.
Filter Element	: 25 micron paper replacable type.
Power Supply	: 24V DC
Port Size	: Inlet - 1" BSPF Outlet - 1" BSPF Return - 1" BSPF
Mounting	: MS fabricated frame for ground mounting of unit.
Serial Output	: RS485 MODBUS RTU optional

Introduction

The fuel consumption monitor is high capacity compact unit for measuring net fuel consumption of high capacity engines. The unit handles the return flow and calculates and displays net engine consumption. It is most suited for use with large Gensets, Ship Propulsion Engines, etc.

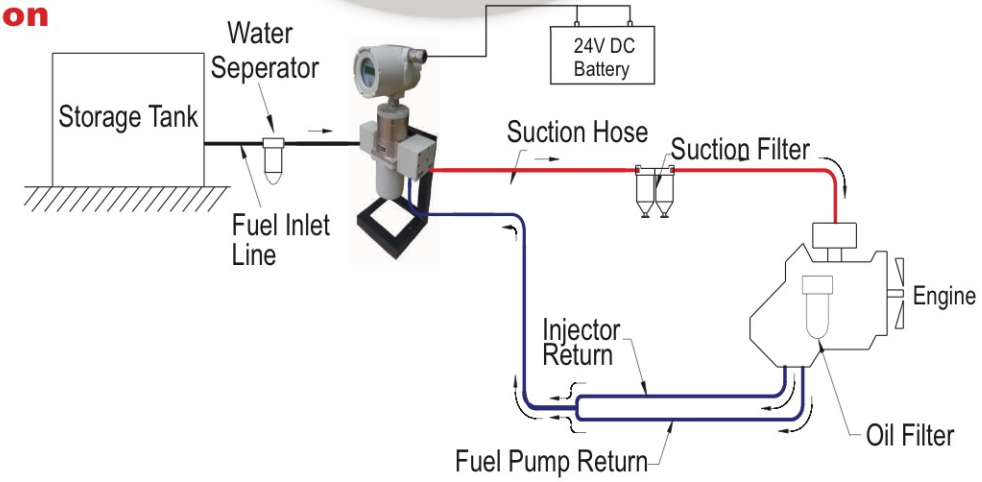
Dimensions



Features

- Accuracy guaranteed over 15-1500 LPH consumption.
- Measures net consumption with single flow sensor.
- Gravity-head not essential for operation.
- Built-in high capacity filter.
- Works on 12V / 24V DC power supply.
- Provided with sturdy mounting frame.
- RS485 Serial output - optional for PLC / SCADA interface.

Installation



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FLUIDYNE

Series 6700 : Industrial Dispensers

For Automobile Assembly lines

Specifications

Dispensing Flow	: ± 0.01 Ltr per batch Cp/Cpk ≥ 1.66
Dispensing Accuracy	: ± 1.0% of reading
Batch Selector Keys	: 0.01Ltr-999.99Ltr User Selectable
Liquid Input	: From barrels/Overhead Tanks/Built in Storage Tank
Built in Tanks	: 250 L/400 L/600 L/900 L Capacity
Control System	: a)PLC : Omron/Mitsubishi/Messung/Siemens make b)MMI : Omron/Biejer/Messung/Siemens make
Data Storage	: 10 years shut down condition
Batch Quantity Selector	: a)Manual selection b)Selection through Barcode Reader
Dispensing Gun	: Pneumatically operated high capacity zero drip
Power Supply	: 3 Phase 415V±10% 50Hz

Introduction

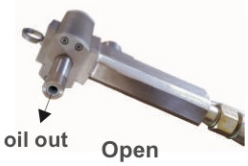
Fluidyne Industrial Dispensers provide fast and highly accurate measure of filling a variety of lube oils, transmission fluids & coolant on final assembly line of cars, heavy vehicles & two wheelers. Split second adaptability for multiple vehicle model on a single filling station with PLC control system coupled with a process capability, Cp/Cpk ≥ 1.66 provides an ideal solution to the needs of modern automotive assembly lines.

Features

- Programmable multiple batches to suit a variety of vehicle models.
- Accuracy guaranteed to ± 0.01 ltr per batch filling.
- Cp/Cpk ≥1.66 for filling all types of liquids.
- Built in double filtration of 150 micron.
- Zero drip high capacity filling gun with customized spout.
- Finger tip Start / Emr. stop function on the filling gun.
- Built-in air seperator for barrel transfer application.
- Evacuate and fill type system for clutch, brake, power steering and radiator filling.

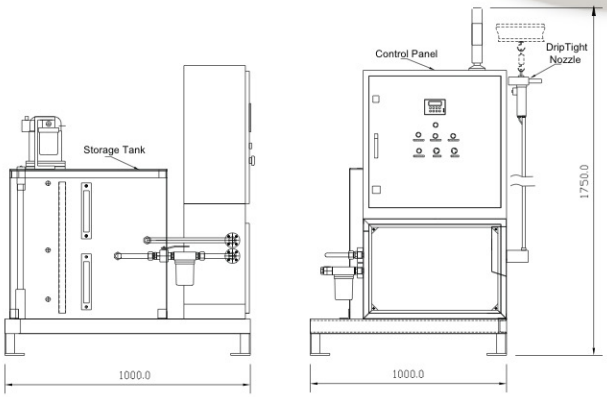
Used Oil Collection & Filtration System

Dripless Nozzle



Closed

Dimensions



Multi Oil Dispenser

Petrol Dispenser with 40L Storage Tank

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FLUIDYNE

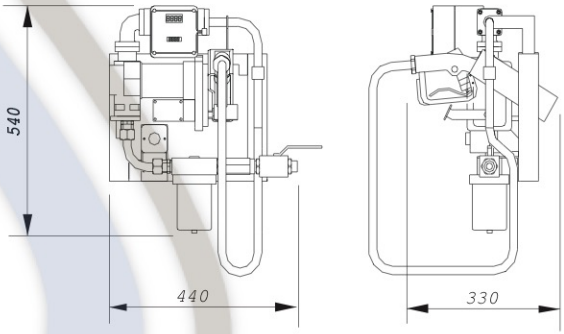
Series 6720 : Mobile Diesel Dispenser

For Tankers / Bouzers / Refueling Vehicles

Specifications

Flow Capacity	: 0 - 60 LPM
Accuracy	: ± 0.5% of reading
Supply Voltage	: 24V DC from vehicle battery
Batch Display	: 12 mm Height LCD 999.99 litres
Cumulatative Display	: 8 mm height LCD 99999999 litres
Filter Mesh	: 150 Micron SS Mesh Reusable Type
Hose Nozzle	: 1" R3 Grade Rubber, 5 Meter Long 3/4" Shut off Nozzle

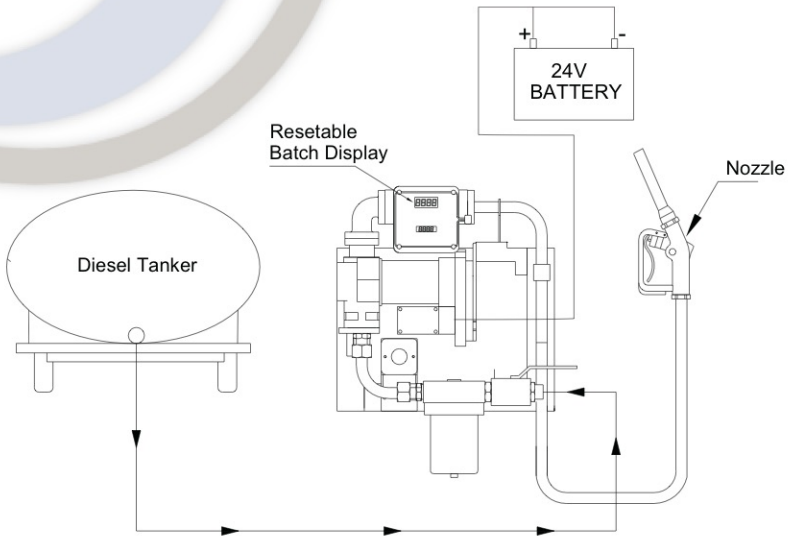
Dimensions



Introduction

The Fluidyne Series 6720 : Mobile Diesel Dispenser is a compact dispensing solution for diesel dispensing at construction and mining sites. 24V DC operation and a tamper-proof metering unit makes it a very attractive device for conserving precious diesel fuel and controlling pilferage on construction/mining sites.

Installation



Features

- High capacity vane pump for diesel dispensing.
- High accuracy P. D. Flowmeter for measurement.
- Built- in reusable large capacity filter.
- 3/4" size Shut off nozzle for filling.
- Pad locking facility for nozzle.
- Resetable Batch and Cummulative Totaliser.
- Self Powered Display.
- 24V DC vehicle battery operation.
- Rugged construction to suit harsh environments.

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FLUIDYNE

Series 6710 : Liquid Filling Machine

For Chemical Container Filling

Features

- Suits container filling of 1, 5, 10, 20, 30 litre containers.
- Accuracy +/- 5.0 ml per container batch.
- Provision to fill, foaming type of liquids with ease.
- Single machine can fill different types of liquid in batch production.
- Unique water & air washing and cleaning cycle for changing liquids.
- PLC control with MMI with finger tip selection of batch size and setting.
- Fully constructed in SS316 for corrosive liquids and environments.
- Provision for optimising accuracy while filling any liquid.
- Zero drip filling nozzle to ensure clean shop floor.

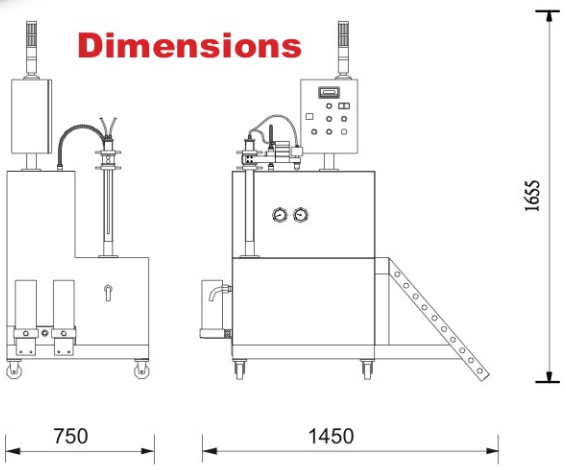
Specifications

Dispensing Flowrate	: 1000 LPH
Filling Accuracy	: ± 5.0 ml per Batch
Batch Setting Range	: 0.5 Litre to 35 Litre
Material of construction	: a) Non wetted parts - SS316 b) Wetted Parts - SS316L
Display	: 16 X 2 LCD Back Lit dot matrix
Display Parameters	: *Set Batch quantity with ident *Delivered quantity with auto zero
Programmed Batches	: Up to 16 Nos. Max.
Floor Space Occupied	: 1500 x 800mm
Power Supply	: 1 Phase 230V, Ac 50 Hz, +/- 50Hz
Pneumatic Supply	: 4 Kg/cm^2 instrument quality air
Diagnostic Alarm	: *Low liquid level *Low Air Pressure *No wash water supply *No flow through nozzle

Introduction

Fluidyne Liquid Filling Machine is specially designed for batch filling of multiple liquids through one common machine into 1.0 litre to 30 litre containers. The system offers an unmatched accuracy of +/- 5.0 ml per batch with a flow range of 1000 LPH. The system can be adaptable for corrosive as well as non-corrosive liquids of various viscosities, densities and chemical compositions.

Dimensions



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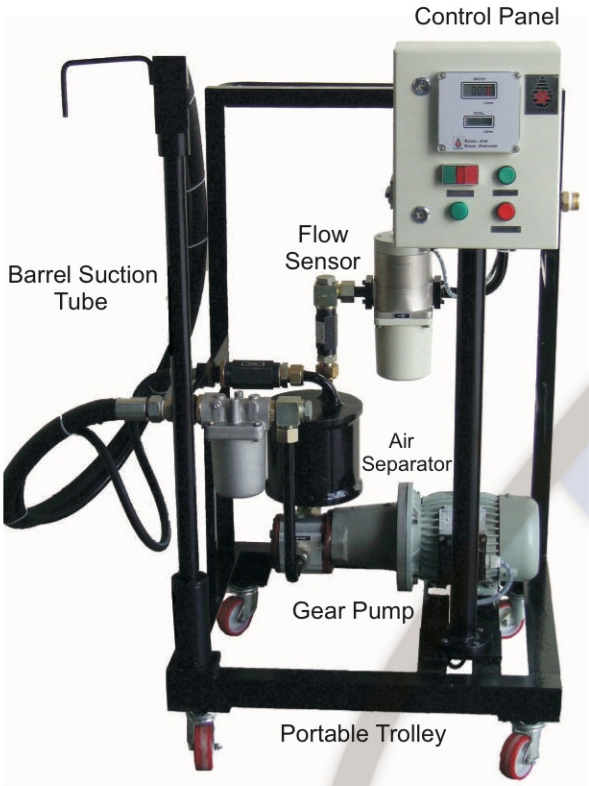
Series 7110 : Barrel Unloading System

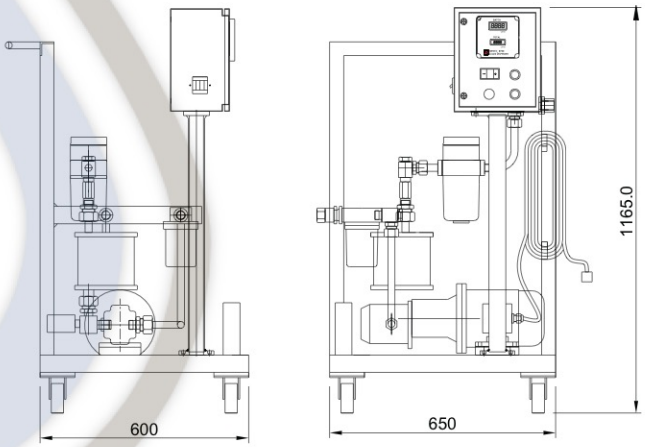
For accurate measurement during unloading barrels.
Diesel / Kerosene / Solvent Applications



Specifications

Flow Capacity	: 25 LPM
Accuracy	: Better than 0.5%
Flow Meter Type	: Positive Displacement - Rotary Piston
Pump Type	:Gear Pump
Motor	:1HP 3*440V power supply
Air Separator	: High capacity ½" Port size
Display	: 5 digit ½" LCD 1999.9 litres resetable 8 digit 8mm LCD 999999.9 litres non-resetable
Barrel Suction Tube	: 1" Metal pipe
Trolley	: Fabricated steel with center wheel.
Filter	: 150 micron reusable.
Suction Hose	: 1",3 Meter long Rubber Hose

Dimensions



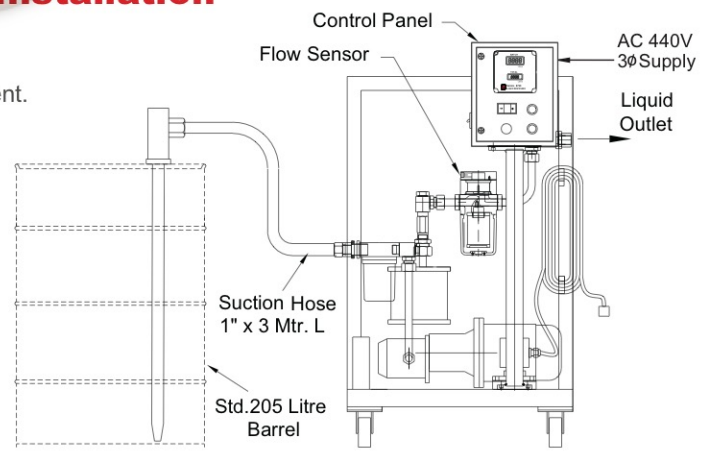
Introduction

The series 7110 is specially designed for accurate measurement of liquid fuels such as diesel, kerosene and solvents during unloading from barrels. Accurate flow measurement is the only solution to checking the dip-rod measurement standard on barrels. The system offers excellent protection against pilferage and short supply normally encountered in this application.

Features

- High accuracy positive displacement flowsensor for measurement.
- 1 HP Gear Pump for decanting barrel within 10min.
- High capacity air separator for maintaining accuracy.
- Construction ensures system is fully primed at all times.
- LCD display for easy readability.
- Weather-proof and flame-proof electrical fitting.
- Convenient metal barrel suction tube with hose provided.
- Left over liquid in barrel is less than half a litre.
- Convenient mobile trolley mounted for portability.
- RS485 Serial – output for PLC interface optional.

Installation



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Series 6690 : Mobile Fuel Monitoring System

For Construction / Mining / Transportation Industry
Installation on Excavators / Tippers / Cranes / Hyva / Loaders / Dumpers
Wireless Data Transmission to Remote Server

Fuel Flow Sensor

Data Collection & Transmission Unit (DCTU)

Parameters measured for each engine working session

- Engine Start & Stop Date
- Engine Start & Stop Time
- Fuel Consumed in Litres
- Working Hrs.
- Idling hrs.
- Kms. Travelled
- Engine Start Latitude & Longitude
- Engine Stop Latitude & Longitude
- System Power ON/OFF Alert ..

Choice of Fuel Flow Sensor

- **6640** For High Pressure Fuel Injected Engines of all makes Capacity 15 - 180 HP
- **6650** For High Pressure Fuel Injected Engines all makes Capacity 100 - 1500 HP
- **6622** For Cummins PT Fuel System based Engines Capacity 50- 2000 HP

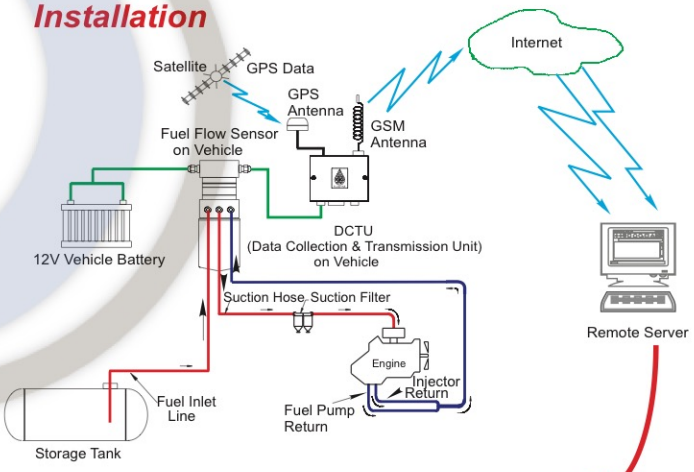
Introduction

The Series 6690 Fuel Monitoring System is a unique innovative product specially designed to provide accurate highly reliable information on complete fuel Consumption of diesel driven machinery. The system offers an excellent solution to monitor fuel misuse, pilferage, low utilization of machines and low operating efficiency of diesel driven machinery.

Features

- Accurately measures and logs net fuel consumed
- Measures and logs engine Run Hrs.
- Measures distance traveled in kms.
- Data logging is done in real time.
- Wireless data transfer to server on GSM network .
- Ruggedised for use with high vibrations and shock load conditions.
- 12 V DC operation on engine cranking battery.
- Non editable file storage in database.
- Choice of fuel sensor to suit all types of Engines.
- Direct transmission of data from vehicle to sever.

Installation



Typical Server Data Page
Machine: JCB Front End Loader / ID SEW00003

ID	StartDate	StartTime	EndDate	EndTime	TotalFuel-ltr	tr	WorkingHours	IdleHours	On/Off Flag	Distance-km	StartLattitude	EndLattitude	StartLongitude	EndLongitude
SEW00003	03/08/2011	18:25:26	03/08/2011	18:25:28	0.03	0	0000:00:02	0000:00:00	0	0	0.00N	21.96N	0.00E	82.40E
SEW00003	03/08/2011	18:26:42	03/08/2011	18:37:54	1.3	0	0000:11:12	0000:00:00	0	0	21.96N	21.96N	82.40E	82.40E
SEW00003	03/08/2011	18:40:08	03/08/2011	18:40:08	0.02	0	0000:00:00	0000:00:00	0	0	21.96N	21.96N	82.40E	82.40E
SEW00003	03/08/2011	18:43:00	03/08/2011	18:53:01	2.94	0	0000:10:01	0000:00:00	0	0.505	21.96N	21.96N	82.40E	82.40E
SEW00003	03/08/2011	19:21:31	03/08/2011	19:36:02	4.23	0	0000:14:31	0000:00:00	0	0.58	21.96N	21.96N	82.40E	82.40E
SEW00003	03/08/2011	20:35:20	03/08/2011	20:36:05	0.12	0	0000:00:45	0000:00:19	0	0	0.00N	21.96N	0.00E	82.40E
SEW00003	04/08/2011	0:14:39	04/08/2011	0:38:47	6.91	0	0000:24:08	0000:05:02	0	0.908	21.96N	21.96N	82.40E	82.40E
SEW00003	04/08/2011	7:28:17	04/08/2011	7:43:03	4.62	0	0000:14:46	0000:03:55	0	0.626	21.96N	21.96N	82.40E	82.40E
SEW00003	04/08/2011	8:47:34	04/08/2011	8:57:14	1.7	0	0000:09:40	0000:02:57	0	0.084	21.96N	21.96N	82.40E	82.40E
SEW00003	04/08/2011	9:02:05	04/08/2011	9:09:26	0.74	0	0000:07:21	0000:05:34	0	0.13	21.96N	21.97N	82.40E	82.41E
SEW00003	04/08/2011	9:42:40	04/08/2011	9:44:53	0.53	0	0000:02:13	0000:00:22	0	0.088	21.97N	21.96N	82.41E	82.40E
SEW00003	04/08/2011	9:48:41	04/08/2011	10:00:03	1.4	0	0000:11:21	0000:06:13	0	0.298	21.96N	21.97N	82.40E	82.40E
SEW00003	04/08/2011	10:12:03	04/08/2011	10:26:10	2.2	0	0000:14:07	0000:05:50	0	0.83	21.97N	21.97N	82.40E	82.41E
SEW00003	04/08/2011	10:36:39	04/08/2011	10:43:15	1.39	0	0000:06:35	0000:01:48	0	0.525	21.97N	21.96N	82.41E	82.40E

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Series 6691 : Mobile Fuel Monitoring System

For Genset / Non moving Construction & Mining / Machinery
Installation on Genset / Dozers / Cranes / Compressors / Welding Sets
Wireless Data Transfer to Remote Server

Fuel Flow Sensor

Data Collection & Transmission Unit (DCTU)

Parameters measured for each engine working session

- Engine Start & Stop Date
- Engine Start & Stop Time
- Fuel Consumed in Litres
- Working Hrs.
- System Power ON/OFF Alert ..

Choice of Fuel Flow Sensor

- **6640** For High Pressure Fuel Injected Engines of all makes Capacity 15 - 180 HP
- **6650** For High Pressure Fuel Injected Engines all makes Capacity 100 - 1500 HP
- **6622** For Cummins PT Fuel System based Engines Capacity 50- 2000 HP

Introduction

The Series 6690 Fuel Monitoring System is a unique innovative product specially designed to provide accurate highly reliable information on complete fuel Consumption of diesel driven machinery. The system offers an excellent solution to monitor fuel misuse, pilferage, low utilization of machines and low operating efficiency of diesel driven machinery.

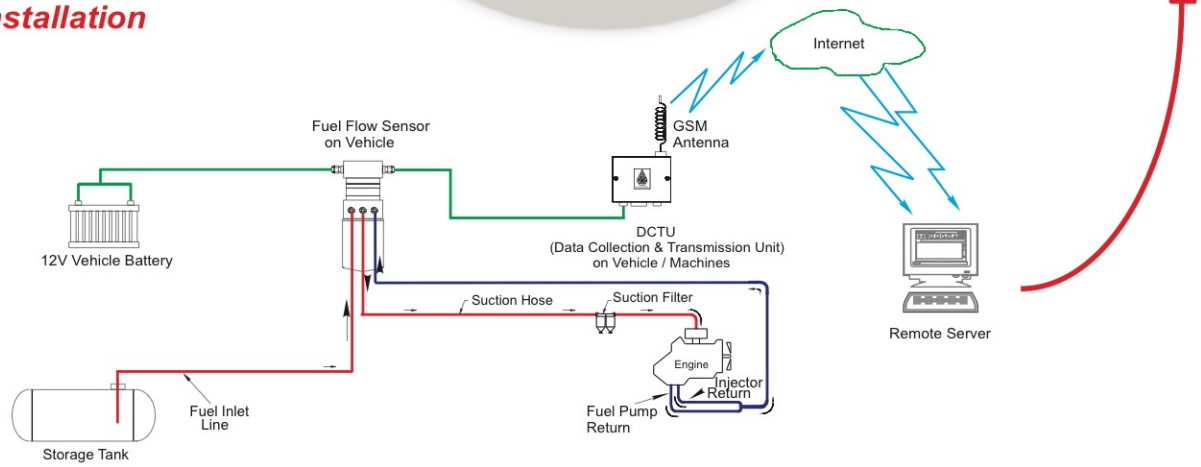
Features

- Accurately measures and logs net fuel consumed
- Measures and logs engine Run Hrs.
- Data logging is done in real time.
- Wireless data transfer to server on GSM network .
- Ruggedised for use with high vibrations and shock load conditions.
- 12 V DC operation on engine cranking battery.
- Non editable file storage in database.
- Choice of fuel sensor to suit all types of Engines.
- Direct transmission of data from vehicle to sever.

Typical Server Data Page
Machine: 25 KVA Genset / ID 00000002

SiteID	Start_Date	Start_Time	dTotalFuel	tWorkingHours	End_Date	End_Time	iOnOffFlag
2	12/06/2011	8:14:45	35.8487879	0013:29:12	12/06/2011	21:43:57	0
2	13/06/2011	8:01:13	35.9516749	0013:52:29	13/06/2011	21:53:42	0
2	14/06/2011	8:11:42	35.9516749	0013:37:06	14/06/2011	21:48:48	0
2	15/06/2011	8:00:20	17.9376223	0005:02:46	15/06/2011	13:03:06	0
2	15/06/2011	13:14:16	17.6319007	0009:20:33	15/06/2011	22:34:49	0
2	16/06/2011	8:02:06	34.337818	0013:43:31	16/06/2011	21:45:37	0
2	17/06/2011	7:56:35	34.3672143	0013:42:43	17/06/2011	21:39:18	0
2	18/06/2011	7:53:50	35.8517275	0013:50:59	18/06/2011	21:44:48	0
2	19/06/2011	8:00:42	35.7076856	0013:44:06	19/06/2011	21:44:48	0
2	20/06/2011	8:09:48	16.6294869	0004:09:34	20/06/2011	12:19:22	0
2	20/06/2011	12:38:35	17.1498014	0009:05:29	20/06/2011	21:44:04	0

Installation



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