



# PETROQUANT 134-PQT

## Monitoring System

for Retail Outlets / Forecourt

### APPLICATION

The "Petroquant – 134 PQT" is a simple, reliable and rugged Remote Indicator Unit for inventory management in retail outlets. The unit is suitable for products stored in under-ground and aboveground atmospheric cylindrical storage tanks containing clear liquids eg. Motor Spirit, High Speed Diesel and Superior Kerosene Oil etc. The Unit connects & powers up to 8 Tanks. A display of gross volume for each tank is available. Tank Strapping and ASTM tables for volume and density reduction may be stored. The unit provides a hard copy printout of level, temperature, density, pressure and volume – tank-wise and product-wise. Dispenser Interface Unit is built-in to access Dispenser data.

Three output ports are available one for printer and two for connection to a Host Computer and for Remote access.

### CONSTRUCTION

The unit is housed in a painted sheet steel enclosure suitable for wall or pipe mounting. The display is a **Graphical LCD back lit** display with **Display Prompts** for ease of Operation. One touch Key Operation is provided for Inventory, Deliveries, Alarm views, Printing, Leakages. The programmable output relays may be provided for alarms, interlocks etc. Built in Dispenser Interface. Modular Construction with expansion Capability.

### FEATURES

- Stand-alone solution for Forecourt inventory Management
- Accurate volumetric measurement using formulae / tank strap and ASTM tables for volume and density reduction
- View of last 24 Tank Alarms.
- Integrated solution for centralized site monitoring
- Optional Leak Detection
- Inventory data, Deliveries data up to 62 days stored
- Tank-wise 2 Deliveries per day per tank logged
- Level, Temperature & Gross Volume, ullage displayed
- Date & Time stamped Data
- Remote Login for uploading of Reports



### **Level Inputs**

From max 8 tanks with Digital Level Magnetostrictive Sensor 134 TM on RS485 .  
Manual entry of Temperature & Density

### **Log of Parameters**

Level, Interface Level, Temperature, Density & Gross Volume up to 3 times daily at preset times.

### **Volume Calculations**

By Formulae up to 100 points or by using Tank Strapping Table and ASTM Tables

**Alarms:** Programmable: 5 nos. for Level  
HH/H/L/LL/TH

**Relays:** Programmable: Up to 8 Nos.- on level.

**Enclosure:** IP 43

**Key Board:** 8 Keys

**Graphical Display:** 180(W)X65(H)MM, (240X64ch )  
backlit LCD

## ORDERING INFORMATION

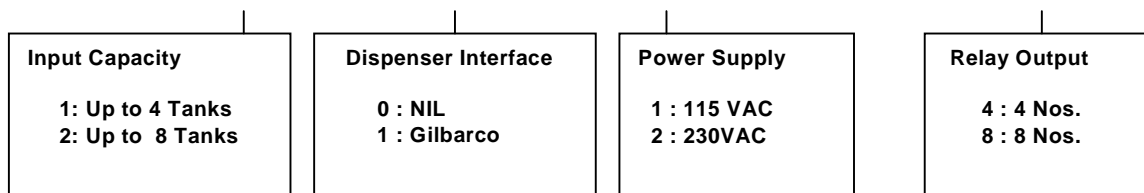
134 PQT

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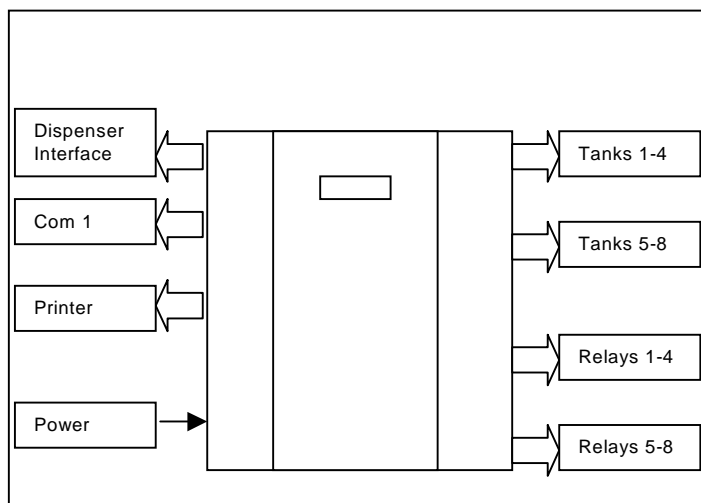


## TYPICAL REPORTS

RECORD OF DELIVERIES

Inventory Report	
Dt:15.03.2002 Time: 0800 hrs	
	Tank-1
	Unleaded Gasoline
Product Vol. (Ltr)	32244
Ullage (Ltr)	5610
90% Ullage (Ltr)	1825
TC Volume (Ltr)	32146
Product level (mm)	1937
Water Volume (Ltr)	0
Water Level (mm)	0
Temperature Deg C	22.5

## “Petroquant” CONFIGURATION



Periodic Reconciliation Report					Tank 1 - Unleaded Gasoline				
Date: 9th January 2002					Time: 0800 hrs				
Date	Time	Opening Volume (Liters)	Delivery (Liters)	Metered Sales (Liters)	Manual Adjust. (Liters)	Calc'd. Inventory (Liters)	Physical Inventory (Liters)	Water Height (mm)	Variance
01.12.2001	1730	8600	0	1000	0	7600	7598	50	-2
03.12.2001	1730	7598	0	1110	0	6488	6484	50	-4
04.12.2001	1730	6484	5225	1340	0	10369	10368	56	-1
05.12.2002	1730	10368	0	890	0	9478	9478	56	0
06.12.2001	1730	9478	0	741	0	8737	8740	56	3
07.12.2001	1730	8740	2500	1290	0	9950	9948	69	-2
08.12.2001	1730	9948	0	1250	0	8698	8696	69	-2

## Business Inventory Report (BIR)

\*\*\*Continuous developments may necessitate changes without notice

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### SBEM Pvt. Ltd.

39, Electronic Co-Operative Estate, Pune-Satara Road, Pune – 411 009 (INDIA)

Tel. – 91-20-24220505, 24223375 Fax – 91-20-24215670

Email – [sbemsales@sbem.co.in](mailto:sbemsales@sbem.co.in), [sbemsales@vsnl.com](mailto:sbemsales@vsnl.com)

Works: Bibwewadi Industrial Estate, 691/A/2, Pune-Satara Road, Pune-411 037(India) Email: [mfg@sbem.co.in](mailto:mfg@sbem.co.in)

Office MUMBAI  
 Tele. 91-22-27823601,  
 Fax 91-22-27823603

Email [mumbai@sbem.co.in](mailto:mumbai@sbem.co.in)

CHENNAI  
 91-44-24451235,24412947  
 91-44-24412947

Email [chennai@sbem.co.in](mailto:chennai@sbem.co.in)

NEW DELHI  
 91-11-26560647,26969679  
 91-11-26969679

Email [newdelhi@sbem.co.in](mailto:newdelhi@sbem.co.in)