

- DISPENSER CALIBRATION & ANNUAL INSPECTIONS
- TEMPERATURE COMPENSATION MODIFICATIONS FOR PETROL DIESEL AND LPG
- UK DISTRIBUTOR FOR E.MEURS & COMAPRO PRODUCTS
- BREAKDOWN MAINTENANCE PROVIDER
- QUALITY ABOVE & BELOW GROUND LPG INSTALLATIONS
- BESPOKE FORECOURT INSTALLATIONS
- PIPEWORK DESIGN & INSTALLATION
- VESSEL TESTING
- CRANED TANK SITING & DELIVERY



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The Proof of the Pudding is in the Eating !.....DTVC really does work...
Live site data retrieved from LPG dispensers with Meurs DTVC installed.....

In order to show the financial benefit to the having DTVC or temperature compensation fitted to LPG dispensers, the following screen shots and accompanying tables are actual data from some of the sites that we currently have DTVC installed . The table details the relevant data with a calculated overall gain or loss assuming a price per litre of 52.9 pence per litre which is indicative of retail LPG price at present

Monitor
Channel: IR USB Receiver (serial D10YECIR), ch. B
Volume scaling: 100.000000 pulses/liter
Reception: Green

Device Info
80:C0:E8:EC:08:00:00:B3
Model: DTVC
Firmware: v2.06

Measurements
Temperature (Celc): 18.3
Pressure (bar): 8.99
Vapour pressure (bar): 8.87

Calculations
Propane (%): 100.0
Butane (%): 0.0
Conversion factor: 0.990

Status
All OK

Total counters

Quantity	Tap 1 (liters)	Tap 2 (liters)
Uncompensated volume:	128308	0
+ Positive compensation:	1706	0
- Negative compensation:	329	0
Compensated volume:	129684	0

Last fill counters

Quantity	Tap 1 (liters)	Tap 2 (liters)
Uncompensated volume:	0.52	0.00
+ Positive compensation:	0.00	0.00
- Negative compensation:	0.01	0.00
Compensated volume:	0.51	0.00

0.0 l/min (approx.) 0.0 l/min (approx.)

LPG site ,Norfolk		
Date DTVC and dispenser Installed :	22.01.2008	
Date of above Monitor program download:	07.07.2008	
Dispenser No	Side 1	Side 2
Uncompensated sales (Litres)	128308.00	
Positive compensation [P]	1706.00	
Negative compensation [N]	329.00	
Compensated sales (Litres)	129684.00	
Total benefit to retailer (Litres) [P-N]	1377.00	
Financial benefit to retailer at £0.529/L	£728.43	

Monitor
Channel: IR USB Receiver (serial D10YECIR), ch. B
Volume scaling: 100.000000 pulses/liter
Reception: Green

Device Info
80:C1:53:AC:D0:00:00:98
Model: DTVC
Firmware: v2.06

Measurements
Temperature (Celc): 17.7
Pressure (bar): 0.09
Vapour pressure (bar): 7.99

Calculations
Propane (%): 100.0
Butane (%): 0.0
Conversion factor: 0.992

Status
All OK

Total counters

Quantity	Tap 1 (liters)	Tap 2 (liters)
Uncompensated volume:	431935	0
+ Positive compensation:	6135	0
- Negative compensation:	683	0
Compensated volume:	437387	0

Last fill counters

Quantity	Tap 1 (liters)	Tap 2 (liters)
Uncompensated volume:	22.73	0.00
+ Positive compensation:	0.00	0.00
- Negative compensation:	0.06	0.00
Compensated volume:	22.67	0.00

0.0 l/min (approx.) 0.0 l/min (approx.)

LPG site, South Wales		
Date DTVC and dispenser Installed :	approx 24 months ago	
Date of above Monitor program download:	22.07.2008	
Dispenser No	Side 1	Side 2
Uncompensated sales (Litres)	431935.00	
Positive compensation [P]	6135.00	
Negative compensation [N]	683.00	
Compensated sales (Litres)	437387.00	
Total benefit to retailer (Litres) [P-N]	5452.00	
Financial benefit to retailer at £0.529/L	£2884.11	

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Monitor			
Channel: IR USB Receiver (serial D1QP8BNQ), ch. B		Volume scaling 100.000000 pulses/liter	Reception Red
Device Info	Measurements	Calculations	
80:D6:49:B6:50:00:AA	Temperature (Celc): 6.0		
Model: TVC	Density (g/l): 750-760	Conversion factor: 1.011	
Firmware: v1.01			
Status	Total counters		
All OK	Quantity	Tap 1 (liters)	Tap 2 (liters)
Calibration mode	Uncompensated volume:	1679903	1283630
Density	+ Positive compensation:	5421	4210
Bypass SSN	- Negative compensation:	3098	2308
Calibration mem	Compensated volume:	1682225	1285533
Counter mem	Last fill counters		
Temp. Dens.inp.	Quantity	Tap 1 (liters)	Tap 2 (liters)
F/P error	Uncompensated volume:	39.95	31.95
Overflow error	+ Positive compensation:	0.43	0.35
	- Negative compensation:	0.00	0.00
	Compensated volume:	40.38	32.30
		0.0 l/min (approx.)	0.0 l/min (approx.)

PETROL site Holland		
Date DTVC and dispenser Installed :		
Date of above Monitor program download: 11.02.2009		
Dispenser No	Side 1	Side 2
Uncompensated sales (Litres)	1679903.0	1283630.0
Positive compensation [P]	5421.0	4210.00
Negative compensation [N]	3098.0	2308.00
Compensated sales (Litres)	1682225.0	1285533.0
Total benefit to retailer (Litres) [P-N]	2323.0	1902.0
Financial benefit to retailer at £0.989/L	£2297.44	£1881.08

Monitor			
Channel: IR USB Receiver (serial D1P98019), ch. B		Reception Red	
Device Info	Measurements	Calculations	
80:D6:49:B6:50:00:AA	Temperature (Celc): 9.3		
Model: TVC	Density (g/l): 750-760	Conversion factor: 1.007	
Firmware: v1.01			
Status	Total counters		
All OK	Quantity	Tap 1 (liters)	Tap 2 (liters)
Calibration mode	Uncompensated volume:	668813	524992
Density	+ Positive compensation:	2347	1870
Bypass SSN	- Negative compensation:	1318	1027
Calibration mem	Compensated volume:	669842	525836
Counter mem	Last fill counters		
Temp. Dens.inp.	Quantity	Tap 1 (liters)	Tap 2 (liters)
F/P error	Uncompensated volume:	19.78	36.17
Overflow error	+ Positive compensation:	0.14	0.26
	- Negative compensation:	0.00	0.00
	Compensated volume:	19.92	36.43
		0.0 l/min (approx.)	0.0 l/min (approx.)

PETROL Site Holland		
Date TVC and dispenser Installed : approx 24 months		
Date of above Monitor program download: 30/01/2007		
Dispenser No	Side 1	Side 2
Uncompensated sales (Litres)	668813.00	524992.00
Positive compensation [P]	2347.00	1870.00
Negative compensation [N]	1318.00	1027.00
Compensated sales (Litres)	669842.00	525836.00
Total benefit to retailer (Litres) [P-N]	1029.00	843.00
Financial benefit to retailer at £0.989/L	£1017.68	£833.72



Each of the above shows that the system works and that overall the retailer would be losing out if DTVC were not installed.



It can also be readily seen that there is an imbalance between positive and negative compensation, giving a clear indication that winter and summer do not balance out in the UK as is commonly advised by some quarters of the industry

As with all fuel related technology, the benefits are sales volume related, and payback times will be pro rata the sites annual volume. High volume sites will obviously payback quicker than low volume sites, although it is clear to see that almost all sites will have an overall positive financial benefit as a result of having DTVC fitted

From trials in Holland and Europe, the benefits to the retailer from installing TVC onto petrol and diesel dispensers gives similar results albeit on a smaller % as the temperature coefficient of expansion is less than that of LPG. However this is compensated for by the fact that sales volumes are much higher.

UK Distributors for

