

**CLICK-IN CLICK-OUT MODULAR DESIGN
FLEXIBLE REPORTING AND REAL-TIME DATA:
THE WORLD'S MOST ADVANCED
FUEL MANAGEMENT SYSTEM**



SmartFill
GEN 2

FLUIDMANAGEMENT
TECHNOLOGY

The world's most functional fuel management system

Simple, robust and functional wins in the long run.

Our three design principals keeps fuel flowing and ensures that every drop is recorded to make accounting and fuel management easy.

A robust system you can rely on.

The original fleet of SmartFill fuel management products from over 10 years ago are still in the field, working day-in and day-out. Known to outlast the bowsers they were originally attached to, our units have survived floods, fires and even being accidentally run over by heavy equipment.



You'll always have the support you need to resolve any issue. **We're just a phone call away**

PROVEN IN THE FIELD

"It's just way superior to anything else on the market."

Response from a survey of installers

"Managing fuel levels is so much easier with SmartFill GEN 2. We can do everything online, without losing any staff time with onsite visits."

SmartFill GEN 2 was clearly well thought out, it ticks all the boxes. We need nothing more."

**Dave Basso, Manager
Delstrat Earthmoving**

SmartFill GEN 2



NETWORKED COMMUNICATIONS – 3G, WIFI, ETHERNET

Networked communications keep your records up-to-date in realtime. Your data is always available and you don't need any special software to access it. USB access on the front of the panel provides access to data if you do not have a communication network.

ELECTRICAL ROBUSTNESS

Designed to deal with unstable power sources, such as generators, truck systems and environments with high levels of electrical noise.

ENHANCED SECURITY

Access to fuel by vehicle and/or driver can be restricted by preselected times (such as 9am to 5pm) and/or volume (such as a maximum of 2,000 litres).

EASY TO USE, EASY TO SET UP

Configuring the unit is menu based, eliminating the need to enter excessively long codes or numbers.

TOUGH ON THE OUTSIDE

An IP66 rated, powder coated steel enclosure ensures continuous operation in all conditions. Tested temperature range -25 to +55C and microparticle proof rubber seals stop dust, insects, moisture and water from entering the unit. Multiple gaskets further enhance protection.

SMART ON THE INSIDE

Easy to service the unit with Click-in and Click-out modules. Each is clearly marked and can only fit in one place. No need for special technical or electrical skills.

SMART ACCESS

Near Field Communications for easy user or vehicle identification, with long lasting proximity cards. You also gain flexibility to gain the data you want, and how you want it. Access can also be provided via PIN, iButton key and VIN (Vehicle Identification Number).

THAT'S SMART!

SmartFill GEN 2 continuously checks the entire system. Back-up power is inside the unit. If engaged, alerts are sent to you and the manufacturer.* No need to fear black-outs or brown-outs. **You'll never lose data.**

SUMMARY OF BENEFITS

- Data is recorded instantly online, with no need for special software (and it's **FREE** to access!)
- Inside, the components are easy to install if required. Click-in and click-out design requires no special technical skills
- Control up to 4 fuel/oil dispensers, all delivering simultaneously
- Records fuel use for up to 2000 vehicles
- Records the past 5000 fuel issues in memory
- Uses secure vehicle keys, and driver PIN or keys to control access to fuel
- Restrict fuel usage by volume per vehicle/driver and/or time
- All data is stored securely in the unit and can be automatically uploaded to a secure website after each transaction
- Multiple communication options available for uploading data to the website: WiFi, 3G and Ethernet
- Large easy to read, colour LCD display
- Can be configured and is continuously monitored remotely via the website
- Modular design allows for rapid installation and repair
- Available with NMI approval
- The system can be used as a "preset" delivery system. This is ideal for lube trucks or workshop lube dispensing systems
- Suits just about any fuel bowser or bulk flow-meter
- Housed in a tough, weatherproof enclosure. High quality lock and stainless steel door hinges, for use in all weather conditions outdoors. Enclosure rating is IP66
- Proven reliability around the world in extreme hot, cold, dusty, windy and salty environments
- Extensive professional network of support
- Optional interface to Veeder-Root TLS tank gauging

*Available with PRO version only

Optional integrated tank gauging is available with SmartDip
- view tank levels online or with SMS

Refuelling a vehicle



Touch the authorised vehicle ID key, fob or NFC card onto the sensor of the unit



Once authorised, the unit can request the vehicle speed/hourmeter reading and/or job number, which helps with scheduling maintenance



Enhanced Security Options

- SmartFill GEN 2 can request the drivers PIN, which will also allow you to personalise your records.
- Vehicle and/or driver access to fuel can be restricted by preselected times (such as 9am to 5pm) and/or volume (such as a maximum of 2,000 litres day).

SmartFill GEN 2 Accessories Overview

NFC Cards and Key Fobs

Easy user or vehicle identification is provided with key fobs or long lasting Near Field Communication proximity cards.



Vehicle ID Key

A vehicle ID key is associated with the vehicle to provide authorised access to fuel. It enables reporting and auditing of fuel usage by vehicles.



Reader Wand

Eliminate the trouble of staff losing keys, using keys from other vehicles or taking keys home. A reader wand is attached to the SmartFill unit with the vehicle touch key mounted onto the vehicle. To access fuel the driver simply touches the reader wand onto their vehicle touch key.



The reader wand is attached to the SmartFill unit



Vehicle touch keys get mounted onto the vehicle

Easy to service SmartFill GEN 2 modules

All modules are clearly marked and only fit in the one place with a Click-in Click-out design.



Power Supply Modules available in both DC and AC



Pump Control Module



Communications Module (3G or WIFI)



Pump Protocol Modules
Gilbarco / New Zealand Pump Protocol



Tank Gauging Modules
SmartDip or TLS

A world of applications in the toughest of environments

MINING



Throughout Australia and the world, SmartFill GEN 2 controls and records the hundreds of millions of litres of fuel needed every day to mine and process everything from coal to gold.

MUNICIPALITIES



Even in the most isolated areas, theft is prevented and every drop of fuel used is recorded.

SERVICE VEHICLES



With auto power off and battery isolation, the system has been specifically designed for service truck use.

MARINAS



Specifically designed for the harshest of environmental conditions, SmartFill GEN 2 stands the test of time and tide in Marinas.

CIVIL CONSTRUCTION



Face extreme weather conditions from minus 25 to plus 55 degrees in isolated areas.

TRANSPORT



All data is captured online in real time for easy accounting and control of large to small fleets.

SmartDip Tank Gauging with online reporting and SMS

A simple foolproof design, with the affordability to match

When you combine SmartDip with SmartFill GEN 2, you have a complete fuel management and reporting system in just one unit, to report, record, measure and alert about fuel use and levels.

The SmartDip system is a simple and reliable design for people who require a functionally accurate system for re-ordering and basic stock control.

SmartDip monitors up to four tanks. It is suitable for most non-flammable liquids such as diesel, with densities ranging from 0.500 to 60.



The SmartDip module

Ease of mind with an alarm system that is set for your needs

SmartDip has a low/high level alarm fitted and the alarm levels for each tank can be set by the user. Densities can be changed by the user in case of density or product type changes.

How do I view the tank levels?

1. The levels are continuously cycling on the display of the SmartDip, or can be displayed as required on a combined SmartFill display. So the levels can be viewed on a unit located next to the tank, eliminating the need to climb ladders to access readings.
2. If the unit is connected to the internet, tank levels can be accessed anytime on a secure website
3. Just send SmartDip a blank SMS from your mobile phone and it will reply with an SMS showing the tank levels. Tank levels can also be sent to your mobile phone automatically at a preset time of day

As with all of our products, the system is simple to install, easy to use and keeps working year in and year out.

TLS interface

SmartFill GEN 2 can also easily integrate with Veeder-Root TLS tank gauging system.

SmartDip monitors up to four tanks. Tank levels can be viewed on a unit next to the tank, accessed online in real time and can also be sent via SMS on demand or at a preset time of day.



SMARTDIP TECHNICAL DATA

Standalone or integrated with SmartFill

DATA TRANSFER	USB or direct to website via 3G, WiFi or Ethernet
POWER	240AC or 12-24VDC
FLUID TYPES	Non flammable liquids e.g. Diesel
SENSOR TECHNOLOGY	4-20mA Pressure Sensor
MAXIMUM TANK HEIGHT	10.9m
ACCURACY	+/-30mm
NUMBER OF TANKS PER UNIT	4

**3G version required for SMS functionality*

MODEL	NUMBER OF PUMPS	PUMP CONTROL	PULSER INPUTS (REED OR HALL EFFECT)	NOZZLE SWITCH INPUTS	NMI APPROVED	POWER
SF2-A-G-AC-N-Y	1 - 8	Gilbarco Comms	N/A		Yes	120-240 VAC
SF2-A-G-AC-S-Y	1 - 8	Gilbarco Comms	N/A		No	120-240 VAC
SF2-A-NZ-AC-N-Y	1 - 8	NZ Pump Protocol	N/A		Yes	120-240 VAC
SF2-A-NZ-AC-S-Y	1 - 8	NZ Pump Protocol	N/A		No	120-240 VAC
SF2-A-X-AC-N-Y	1 - 2	AC Switched 240VAC, 10A max	1 - 2	1 - 2	Yes	120-240 VAC
SF2-B-X-AC-N-Y	3 - 4	AC Switched 240VAC, 10A max	3 - 4	3 - 4	Yes	120-240 VAC
SF2-A-X-AC-S-Y	1 - 2	AC Switched 240VAC, 10A max	1 - 2	1 - 2	No	120-240 VAC
SF2-B-X-AC-S-Y	3 - 4	AC Switched 240VAC, 10A max	3 - 4	3 - 4	No	120-240 VAC
SF2-A-X-DC-N-Y	1 - 2	DC Switched 24VDC, 5A max	1 - 2	1 - 2	Yes	9 - 36VDC
SF2-B-X-DC-N-Y	3 - 4	DC Switched 24VDC, 5A max	3 - 4	3 - 4	Yes	9 - 36VDC
SF2-A-X-DC-S-Y	1 - 2	DC Switched 24VDC, 5A max	1 - 2	1 - 2	No	9 - 36VDC
SF2-B-X-DC-S-Y	3 - 4	DC Switched 24VDC, 5A max	3 - 4	3 - 4	No	9 - 36VDC

Y = (C = Cellular W = WiFi E = Ethernet) X = Number of control outputs N = NMI Approved S = Non NMI Approved

DATA TRANSFER	USB or direct to website via 3G or WiFi or Ethernet	ONLINE REPORTING
TRANSACTIONS	5000	FREE <ul style="list-style-type: none"> All active sites available online Running tally of fuel use data available in real time online. Data can also be download in CSV format INSTALL, SETUP & TROUBLESHOOTING <ul style="list-style-type: none"> Intuitive menu system Remote configuration via web
NUMBER OF VEHICLES	2000	
NUMBER OF DRIVERS	2000	
DATA ENTRY	Prompt for Odometer/PIN/VIN/or custom field	
DRIVER OR VEHICLE KEYS	iButtons/NFC cards/FOBs	PRO: \$40/month <ul style="list-style-type: none"> All active sites available online Running tally of fuel use data available in real time online. Data can also be downloaded in CSV, PDF and Word formats Transactions can be filtered by any attribute: driver, vehicle, time and date, or any combination Standard reports can be set up and emailed through on a monthly basis in PDF, Word, Excel or CSV. Reports can be arranged via transaction type and usage Automatic alerts emailed through if there are any black-outs, brown-outs or other issues with the system Data package customisable to accounting programs and software (*a one-off fee would be charged for bespoke software packages) INSTALL, SETUP & TROUBLESHOOTING <ul style="list-style-type: none"> Intuitive menu system Remote troubleshooting and configuration via web
DISPLAY	Range: 99999.99 Litres Scale: 0.01 Litre	

CONTACT INFORMATION



Fluid Management Technology Pty Ltd
39 Marryatt Street, Port Adelaide 5015

PO Box 3197, Port Adelaide 5015

Office: (08) 8240 5585

Fax: (08) 8240 5514

Email: sales@fluidmt.com

Web: www.fluidmt.com