

**FOR DEMANDING FUEL
MANAGEMENT ENVIRONMENTS,
SIMPLE WORKS BEST**



Product and technical information for
SmartFill and SmartDip fuel management solutions



What over 10 years and 1,500 international systems has taught us

Simple, robust and functional wins in the long run. Our three design principles keep fuel flowing and ensures that every drop is recorded to make accounting and fuel management easy.

The original fleet of SmartFill fuel management products from over 10 years ago are still in the field working day-in and day-out. In some cases, they have outlasted the bowers they were originally attached to.

SmartFill - Australia's best-selling fuel management system

A SmartFill system will dramatically reduce the time it takes to reconcile your fuel usage, prevent fuel theft, and eliminate errors in your fuel, oil or water recording. It will even create basic maintenance reports for you.

SmartFill is easily installed onto your fuel pump, service vehicle or lube bay. The simple robust and functional design has proven to be the stand-out formula for success in the market, with over 1,500 units sold worldwide.

Example of the data you can use for reporting and vehicle maintenance

Key No		Reg No	Fleet No	Driver No	Driver name	Litres	Speedo	Time	Date	Pump
20	Mack PM	015-EGX	12544	1	Steven Fry	969.2	222886	6:49 PM	01/08/2004	2
21	Volvo PM	457-EGX	15111	4	Scott Worden	436.1	997420	1:41 PM	02/08/2004	1
17	Freightliner	282-ECS	20024	2	Ian Dickson	1077.3	246150	10:38 AM	05/08/2004	2
20	Mack PM	015-EGX	12544	1	Steven Fry	1240.5	224044	1:10 PM	07/08/2004	2
17	Freightliner	282-ECS	20024	2	Ian Dickson	1133.1	247300	2:02 PM	07/08/2004	1
18	Mack PM	052-EFQ	20133	6	Simon Betts	1010	226000	5:25 PM	07/08/2004	1
17	Freightliner	282-ECS	20024	2	Ian Dickson	800.1	248150	11:02 PM	08/08/2004	2
20	Mack PM	015-EGX	12544	1	Steven Fry	891.4	225043	11:48 PM	08/08/2004	2
21	Volvo PM	457-EGX	15111	4	Scott Worden	1531.6	999785	1:32 PM	09/08/2004	1
17	Freightliner	282-ECS	20024	2	Ian Dickson	720	248800	3:37 PM	09/08/2004	2
21	Volvo PM	457-EGX	15111	4	Scott Worden	385.1	1238	12:43 PM	11/08/2004	1
17	Freightliner	282-ECS	20024	2	Ian Dickson	1602	250164	3:37 PM	11/08/2004	1
18	Mack PM	052-EFQ	20133	6	Simon Betts	990	228000	6:41 PM	11/08/2004	2
17	Freightliner	282-ECS	250024	2	Ian Dickson	666.5	250805	6:30 PM	12/08/2004	1
20	Mack PM	015-EGX	121544	1	Steven Fry	1456.2	226365	8:27 PM	12/08/2004	1

SmartFill features

- Control up to 8 fuel/oil dispensers, all delivering simultaneously
- Records fuel use for up to 2000 vehicles
- Records the past 3000 fuel issues in memory, and warns you when the memory is getting low
- Uses secure vehicle keys, and driver pin numbers to control access to fuel
- All data is stored securely in the unit and can then be downloaded to an SD memory card, and transferred to your office computer
- Multiple communication options available for data downloading: mobile phone modem, network?
- 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 with 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



SmartFill system overview

Refueling a vehicle



1.
TO FUEL VEHICLE,
touch the authorised vehicle
key onto the sensor of the
Smart-Fill unit.



2.
If enabled, SmartFill then
requests the vehicle Speedo/
hourmeter reading, which
helps with scheduling
maintenance.



3.
**OPTIONAL SECURITY
FEATURE:** Smart-Fill
requests the driver's pin
number. This allows you to
personalise records.



The driver fuels the vehicle, and when the fuel delivery has finished,
the Smart-Fill stores the details in its memory. Smart-Fill will
automatically turn the fuel pump off, after a period of no flow.

Creating reports



At the end of each month, or at a time of your
choosing, your fuel use data is copied from the
Smart-Fill unit to your office computer, using a SD
memory card.



You insert the memory card into the memory
card reader slot of your computer. The
Smart-Fill software transfers the data directly
into a spreadsheet format, which you can
open in almost any spreadsheet program, such
as: Microsoft Excel® or Microsoft Works®

*You can also fit a 3G
phone modem to a
Smart-Fill system and
simply dial into the unit
from your office computer
to download data, or add/
disable keys and pin
numbers etc*

SmartFill components overview



MENU KEY

The electronic menu key provides secure access to all setup functions and to data retrieval. One unique key is supplied with each unit.



VEHICLE ID KEY

A vehicle key is associated with the vehicle to provide authorised access to fuel. Enables reporting and auditing of fuel usage by the vehicle.



READER WAND

You can mount the vehicle touch keys onto the vehicle near the fuel tank. This eliminates the trouble with staff losing keys, using keys from other vehicles or taking keys home.

SOFTWARE

Intuitive Windows based software transforms the data from the SmartFill into reports as a .csv format which can be viewed and edited in Excel for ease of accounting and reporting.



A solution for every application, and works every time

There's a range of important applications you can use SmartFill. From monitoring fuel usage on a service truck, wanting to ensure that you control fuel usage from the bowser in your depot or tracking contractors' fuel consumption from the high flow pump on your tank.

There is a SmartFill model to meet your needs.



SmartDip tank gauging with optional SMS reporting

A simple foolproof design, with the affordability to match

When you combine SmartDip with a SmartFill fuel management system, 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 8 tanks and sends the tank levels to you on demand or at a preset time of day. This can be sent directly to a mobile phone via SMS. It is suitable for most non-flammable liquids such as diesel, with densities ranging from 0.500 to 60.

How do I view the tank levels?

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.

A mobile phone modem can be installed into the system. You can view the tank contents by either:

1. Just send SmartDip a blank SMS from your mobile phone, and it will reply with an SMS showing the tank levels.
2. If you have a SmartFill fuel management system, you can also use the SmartFill PC link software to view the tank levels.

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

A low/high level alarm relay is 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.



SmartDip allows you to monitor your tank levels on site or remotely.



A world of applications in the toughest environments

MINING



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

MUNICIPALITIES



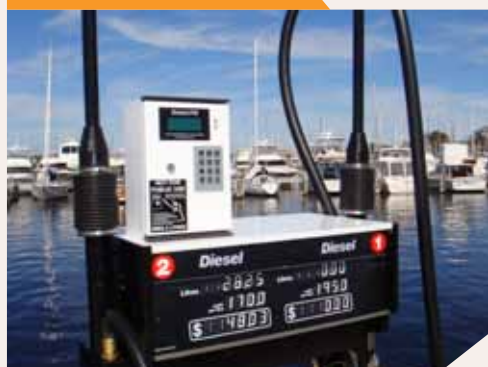
Even in the most isolated areas, theft is prevented and every drop of fuel used is recorded.

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 stands the test of time and tide in Marinas.

CIVIL CONSTRUCTION



Face extreme weather conditions from minus 20 to plus 30 degrees in isolated areas.

TRANSPORT



All data is captured and easily accessed for easy accounting and control of large to small fleets.

Technical data

SmartFill

Control Input / Outputs

Model	Power	Number of Pumps	Pump Control	Pulser Inputs (Reed or Hall Effect)	Nozzle Switch Inputs
SFI002	230VAC	1-8	Gilbarco Comms		
SFI005	230VAC	1-8	Gilbarco Comms	N/A	N/A
SFI006	230VAC	1	AC Switched 40 - 440VAC, 25A max	1	1
SFI007	230VAC	2		2	2
SFI008	230VAC	3		3	3
SFI009	230VAC	4		4	4
SFI010	12-24VDC12	1		1	1
SFI011	12-24VDC12	2		2	2
SFI012	12-24VDC12	3	DC Switched	3	3
SFI013	12-24VDC12	4	12VDC, 5A max	4	4

Data Transfer Communications Transactions Number of vehicles Number of Drivers Data Entry	SD card Direct Connect /PSTN /GSM /LAN /WiFi /Radio Link 3000 2000 2000 Prompt for Odometer/PIN
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SmartDip

Power	240AC or 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	8
Low level alarm	3A @ 30VDC
High level alarm	3A @ 30VDC

Ordering and contact information

Ordering Information

SmartFill Models

SFI001	SmartFill NMI DC (No Pulser)
SFI001-I	SmartFill NMI DC with LC Meter pulser Kit
SFI002	SmartFill NMI Gbco 5v
SFI005	Smart-Fill NonNMI Gbco
SFI006	SmartFill NonNMI Single AC
SFI007	SmartFill NonNMI Multi (x2) AC
SFI008	SmartFill NonNMI Multi (x3) AC
SFI009	SmartFill NonNMI Multi (x4) AC
SFI010	SmartFill NonNMI Single DC
SFI010V	SmartFill NonNMI Single DC For Vehicle

SmartFill Options

A1020	Pulser Kit Fillrite
A1021	Reader Wand
A1024	Pulser kit VR 1623
A1025	Pulser Kit VR 7887
PI032	Vehicle mounted key
A1316	Vehicle Key (20 supplied with each new unit)
UI006	3G Comms Option
SDI002	SmartDip Combined With Smart-fill (1 Tank)
SDI003	SmartDip Per Additional Tank

SmartDip

SDI001	SmartDip Tank Gauging, Stand Alone
SDI003	SmartDip Per Additional Tank

SmartDip Options

UI006	3G Comms Option
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Contact info

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Fluid Management Technology is an Australian owned and operated company.

We design and manufacture the SmartFill and SmartDip range of products in Australia.

With 1,500 products sold worldwide and still in use, we continue to ensure that our products are simple, robust and reliable.