



PSS 5000

One forecourt controller for all solutions



Building Better Business



Benefits

- Ease of maintenance
- Ease of change
- Speed of change
- Ease of management

Interfaces to most forecourt equipment

PSS 5000 supports numerous types of forecourt equipment, including:

- Pumps (more than 50 different pump types, including IFSF)
- Payment terminals (cards and/or bank notes)
- Tank gauge systems
- Price poles
- Car wash machines
- Vehicle identification systems
- Vapour recovery systems
- Attendant Tagging
- I/O alarm panels (such as oil separator alarms)
- Fall-back switch (if the POS system is down)

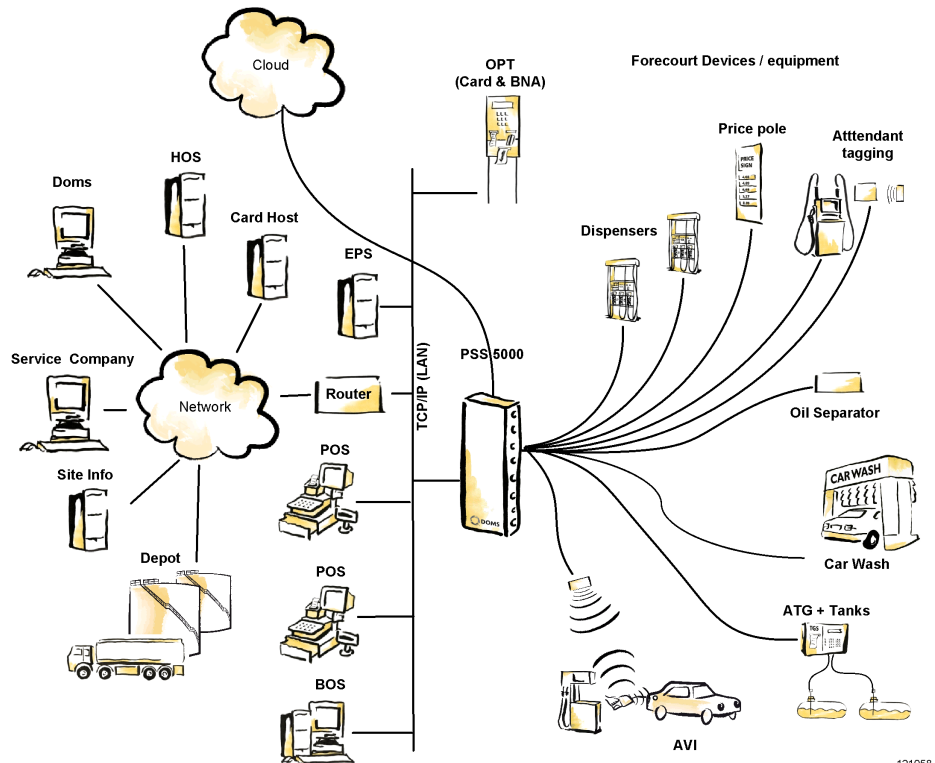
Connects to the rest of the world

PSS 5000 offers a broad range of connectivity features such as direct network access to detailed technical alarms, environmental data and inventory figures. The PSS 5000 is the latest in the series of PSS controllers and builds on more than 25 years of experience. It is today used on more than 75,000 petrol stations in more than 75 countries.

Outdoor payment solutions

PSS 5000 integrates equipment and applications from different manufacturers for almost any type of solution, including:

- Intelligent and unintelligent terminals
- Keyboards and secure PIN entry devices
- External or embedded payment servers
- POS and head office interfaces



Combine a POS with almost any brand and make of forecourt equipment

PSS 5000 is designed to provide oil companies with the flexibility to mix POS and forecourt equipment of any brand and make. This means that the oil company can combine any POS system with dispensers from, for example, Gilbarco, Wayne or Tokheim.

As a system component in the POS environment, the PSS 5000 overcomes the complex differences between a supermarket and a petrol station; integrating control of all types of forecourt equipment with the POS, BOS and head office systems.

We take ownership of the business logic

The PSS 5000 is more than a forecourt interface and a connection box. It also includes the software application that handles the business logic for controlling the petrol station forecourt. This means that the POS draws entirely on the experience and knowledge of Doms and, therefore, only needs to do little work in this area. The main advantages are:

- Easy POS integration of complex forecourt business logic.
- Usage of a stable and well-proven forecourt application.
- Flexibility for retailers to perform independent updates of both POS and forecourt equipment.

Easy POS integration via TCP/IP

For implementation and test a PSS 5000 development package is available, including full documentation, a PSS 5000 system, simulators for pumps, tank gauge systems, payment terminals and price poles, diagnostic tools and Windows interface components. More than 60 POS suppliers have already interfaced to the PSS 5000.

Matches all petrol stations, regardless of design and size

The PSS 5000 is fully modular in terms of hardware and software. For example, it enables a small system, handling one POS terminal and one type of pump to be upgraded to a complex system, which is capable of handling an unmanned site with a card server and pumps from different manufacturers, together with a price pole and a payment terminal.

All in one box

Besides functioning as a forecourt controller, the PSS 5000 hardware also acts as an EMC and LVD approved connection box for the wiring of the forecourt. This means that all cables from POS, BOS and the forecourt can be connected in the controller box.

IFSF Support

Since 1996, the PSS 5000 has implemented interfaces to the existing IFSF protocols for pumps, price poles, car wash machines and tank gauges.

Remote Service Facilities

Each controller contains an embedded web server. It is a cost and time reducing feature for maintenance and configuration, both on-site and remotely.

- Ensures that technicians are only sent to the site when required.
- Remote diagnostics can be conducted via the Internet and by professionals.
- Software uploads and downloads of both application and configuration. A feature of the web server is the error and event log from all forecourt devices.



PSS 5000 unit opened (to the left) and closed (to the right). The CPU board and hardware interface modules are mounted inside the controller box, where the POS and forecourt equipment are connected.

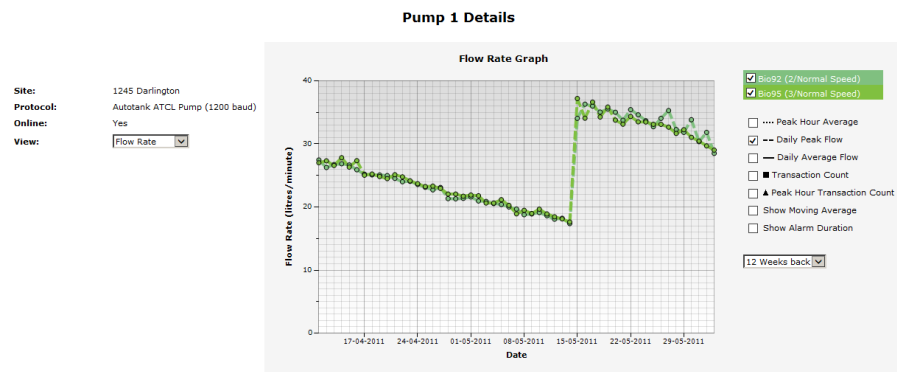
Optional host interface for data and alarm collection

The PSS 5000 is ideal as a data provider to host systems, such as alarm centres or delivery planning systems. It has an XML based interface and collects data and alarms from all the connected forecourt equipment.

Peep Address	Total Size
2016.12.1-06.26.0000	800 KB
2016.12.1-07.26.0000	800 KB
2016.12.1-08.26.0000	800 KB
2016.12.1-09.26.0000	800 KB
2016.12.1-10.26.0000	800 KB
2016.12.1-11.26.0000	800 KB
2016.12.1-12.26.0000	800 KB
2016.12.1-13.26.0000	800 KB
2016.12.1-14.26.0000	800 KB
2016.12.1-15.26.0000	800 KB
2016.12.1-16.26.0000	800 KB
2016.12.1-17.26.0000	800 KB
2016.12.1-18.26.0000	800 KB
2016.12.1-19.26.0000	800 KB
2016.12.1-20.26.0000	800 KB
2016.12.1-21.26.0000	800 KB
2016.12.1-22.26.0000	800 KB
2016.12.1-23.26.0000	800 KB
2016.12.1-24.26.0000	800 KB
2016.12.1-25.26.0000	800 KB
2016.12.1-26.26.0000	800 KB
2016.12.1-27.26.0000	800 KB
2016.12.1-28.26.0000	800 KB
2016.12.1-29.26.0000	800 KB
2016.12.1-30.26.0000	800 KB

A feature of the web server is the event log from all the forecourt devices. One of these features is the facility to log communication with all the POS and forecourt devices connected. This is a very efficient tool for diagnostics and troubleshooting.

Date	Time	Device ID	Error Code	Error Name	Prevent Description	Prevent Error Description
2016-12-01	15:28	Fueling Pump	3	Payment error	Device Pump Protocol	0000
2016-12-01	15:28	Fueling Pump	3	Payment error	Device Pump Protocol	0000
2016-12-01	15:28	Fueling Pump	3	Payment error	Device Pump Protocol	0000
2016-12-01	15:27	Fueling Pump	3	Payment error	Device Pump Protocol	0000
2016-12-01	15:27	Fueling Pump	1	Start error	Device Pump Protocol	0000
2016-12-01	15:26	Fueling Pump	2	Calculation error	Device Pump Protocol	0000
2016-12-01	15:26	Fueling Pump	2	Calculation error	Device Pump Protocol	0000
2016-12-01	15:25	Fueling Pump	3	Calculation error	Device Pump Protocol	0000
2016-12-01	15:25	Fueling Pump	3	Calculation error	Device Pump Protocol	0000
2016-12-01	15:22	Fueling Pump	3	Payment error	Device Pump Protocol	0000



Via the host interface, all types of alarms and monitoring data can be collected from the PSS 5000.

Reliability at low cost

The PSS 5000 is a proven high performance embedded system offering fast transaction handling and a low failure rate. Compared to a PC based system, the PSS 5000 ensures a stable system for continuous operation at low cost.

Approvals and compliance

The PSS 5000 has been designed to comply with the different W & M Approvals around the world. The W & M part is isolated in a special module. This means that the controller can be updated with new functionality without requiring new approval or re-sealing the approved software.

W & M approvals have already been issued in a large number of countries, and the first forecourt controller PSS 5000 was tested and deemed compliant with the OIML recommendations R-117. The PSS 5000 has a MID Parts Certificate, making MID system approval easier.

CURRENT INVENTORY STATUS												
Date	Time	Tank	Product	Capacity	Volume	Ullage	Low	Low Low	Tank Status	Next 24 Hours	Low Low in	Order Vol.
04-06-2011	00:14	1	Diesel	30.343	27.093	3.250	3.476	2.238		934	26,9 days	<input type="text" value="3.000"/>
04-06-2011	00:14	2	Ultra 95	14.960	1.810	13.150	1.654	1.327		105	5,3 days	<input type="text" value="0"/>
04-06-2011	00:14	3	Unleaded 95	30.379	27.086	3.293	4.862	2.931		832	29,0 days	<input type="text" value="3.000"/>
04-06-2011	00:14	4	Unleaded 95	30.343	27.772	2.571	5.618	3.309		1.016	24,3 days	<input type="text" value="0"/>
04-06-2011	00:14	5	Unleaded 92	14.943	8.026	6.917	2.586	1.793		339	18,8 days	<input type="text" value="3.000"/>
<input type="button" value="Update Now"/>											<input type="button" value="Order"/>	<input type="text" value="9.000"/>

Via the host interface, wet stock data can be collected in next to real-time from the PSS 5000. This could be from a mixture of tank gauges.