



EF Energy Limited

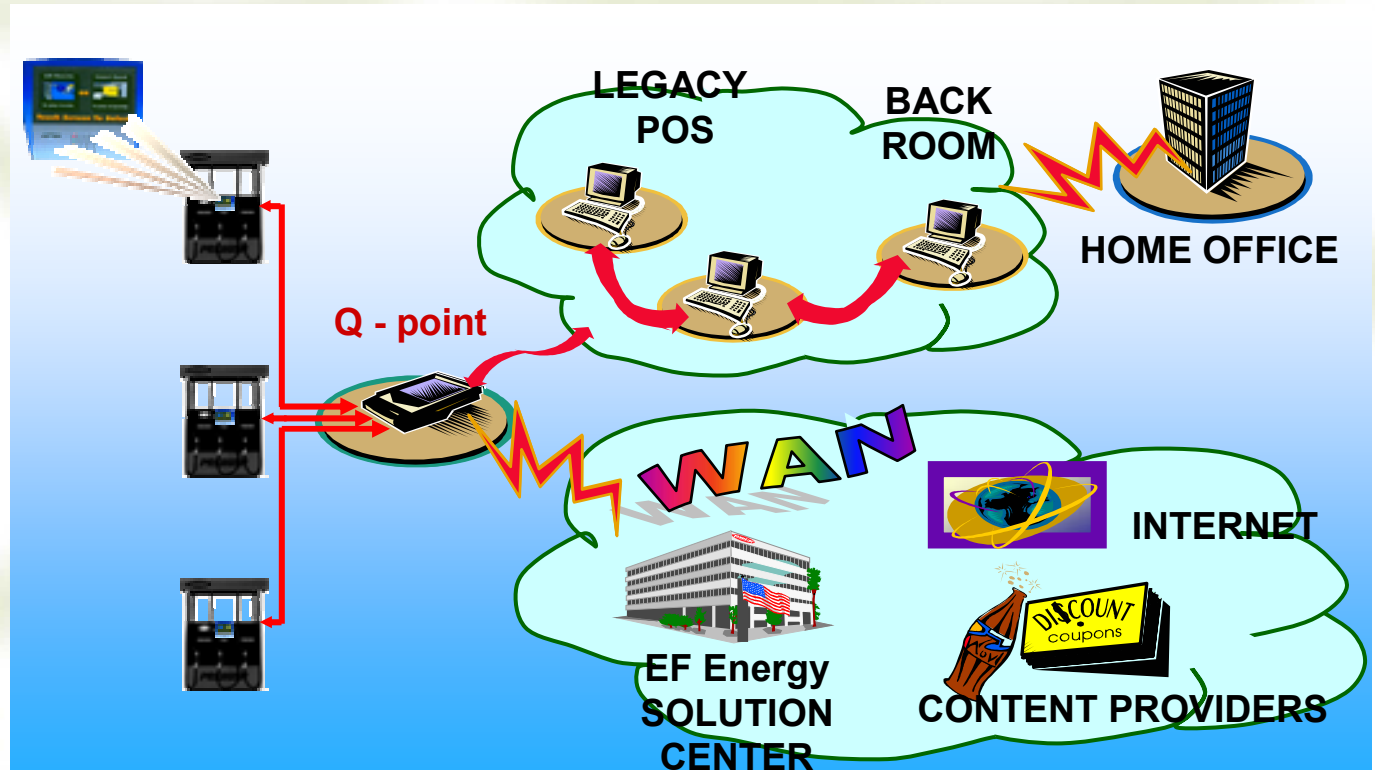
Auto LPG Retail Outlets

With RFID



- EF Energy Limited has released for the Indian market a “high end” IQ platform
 - *This platform controls the dispenser, payment and content applications*
 - *The hardware is supplied by third party companies.*
 - *Radiant for the main-board*
 - *Litton for the touch screen and touch technology*
 - *Texas Instruments - RFID*
 - *Pico Mega Design Labs for RFID*
 - *The dispenser components are driven by the Fuel control module which is linked to a smart hydraulic I/O board*
 - *The IQ dispenser platform is linked to a central Q-point who controls the forecourt communication.*

Q - point





Premier iQ

- Open Platform
 - *Microsoft Windows CE*
 - *USB connectivity*
 - *Ethernet topology (PNA)*
 - *TCP/IP protocol*
- User Interface
 - *10.4" TFT display*
 - *Touch screen operation*
- System Connectivity
 - *Supports legacy retail systems*
 - *Retrofit to legacy hydraulic systems*
- Standard Web Browser Operation (optional)
 - *Internet Explorer 4.0*
 - *Supports HTML/XML Standards*





Applications

- Information
 - *Value added content (instruction movie)*
 - *Travel / Weather information (sponsored by)*
- Brand Reinforcement
 - *Oil + shop brand imaging*
 - *Co-branding*
- Identification
 - *Secure payment*
 - *Personal messages*
- Promotions
 - *Commercials*
 - *Couponing*



eCommerce

- **EF Energy** and IQe offer you the perfect data management system to further develop eBusiness
- New applications will be developed in close relationship with our customer
- New applications-CRM (Customer Relationship Management)
 - *Remote & Service diagnostics (forecourt + shop)*
 - *Interactive loyalty programs*
 - *All forecourt and sales data is available in a standard format*
 - *Contents are linked to customer behaviour*
 - *New revenue maker because of the combination content and sales data*
 - *Pay at the pump for the Car-Wash program*
 - *Order and pay at the pump, merchandise and QSR goods*
- On-line shopping and delivery at home or pick-up at the station



Project Implementation

Qnet Components

- Remote Diagnostics – A system to capture/collect diagnostic information from installed equipment.
- Remote Software Delivery – The ability to download and install software on installed equipment via a remote host.
- Remote Connectivity – Built in web browser in all equipment for remote viewing of operational and diagnostic data.
- Forecourt Content Design Tool – Web based tool to develop content for the forecourt.
- Fuel Data Reporting – Web based data collection and reporting tool.



EF Energy Network



Point Of Sale



Forecourt Control



Host Communication



QSR



**EF Energy System
Solution**



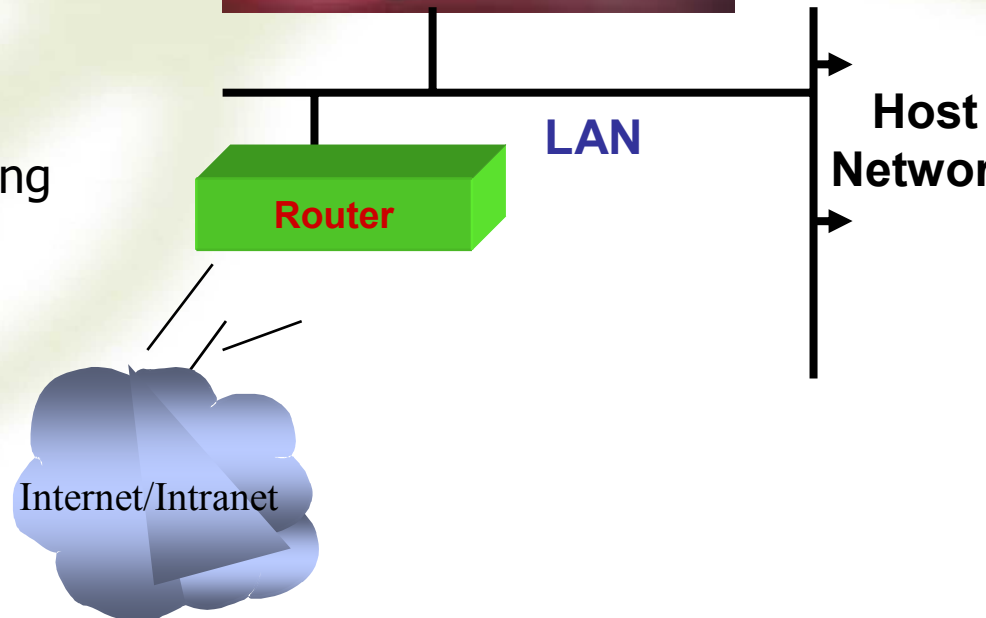
Key Fob Transponder



IQ - Fuel Manager

- Installed at host level
- New EF Energy package which provides
 - Managing Alerts
 - Net Browser
 - Wet stock
 - Pricing (Fuel)
 - Sales and Marketing module
 - Real time
 - day
 - week
 - month
 - year

EF Energy product
Fuel Manager



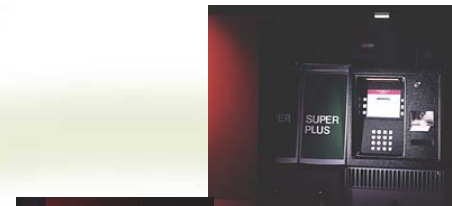


OPTimum Payment Terminals

OPTimum

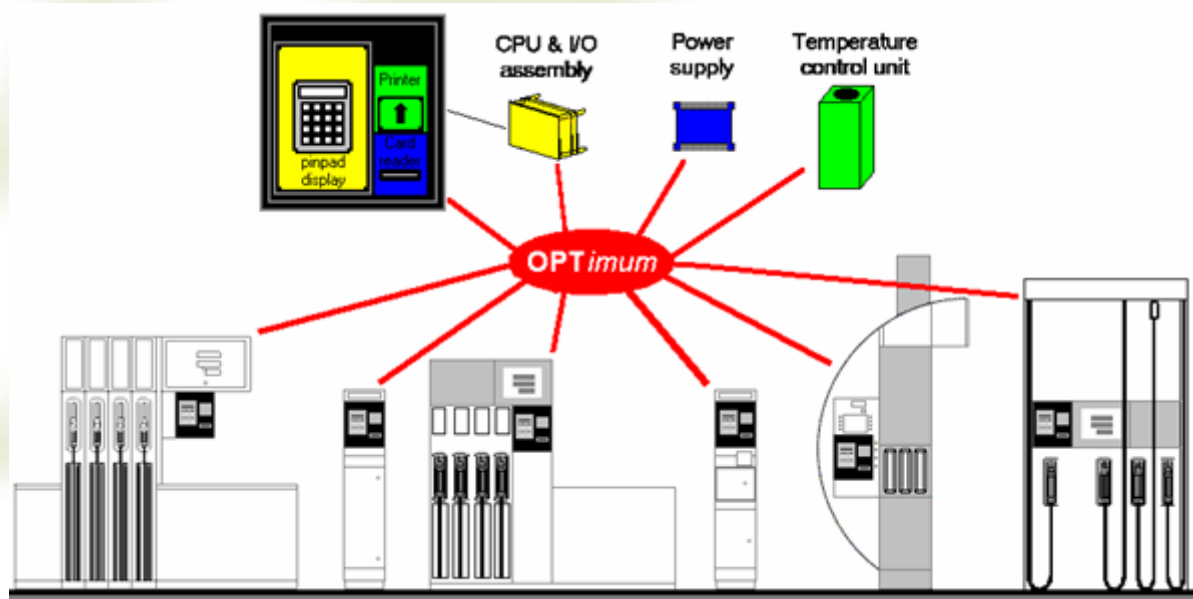
The OPTimum range is a comprehensive outdoor payment terminal range that provides dispenser integrated & island terminal solutions.

- OPTimum-Integrated
Integrated in EF Energy Dispensers
- OPTimum-Retrofit
For retro-fitting older EF Energy-
and 3rd party dispensers
- PICO-RFID terminal
- OPTimum-BNA terminal
Island terminal for banknotes



OPTimum concept

- Modular design where the drawer - that fits into a variety of housings - is the backbone of the product range
- Components:
 - 'Green': *standard parts such as printer and heater*
 - 'Blue': *selectable pre-defined parts such as RFID-reader, power-supply*
 - 'Yellow': *country- and/or customer specific parts such as PIN pads.*





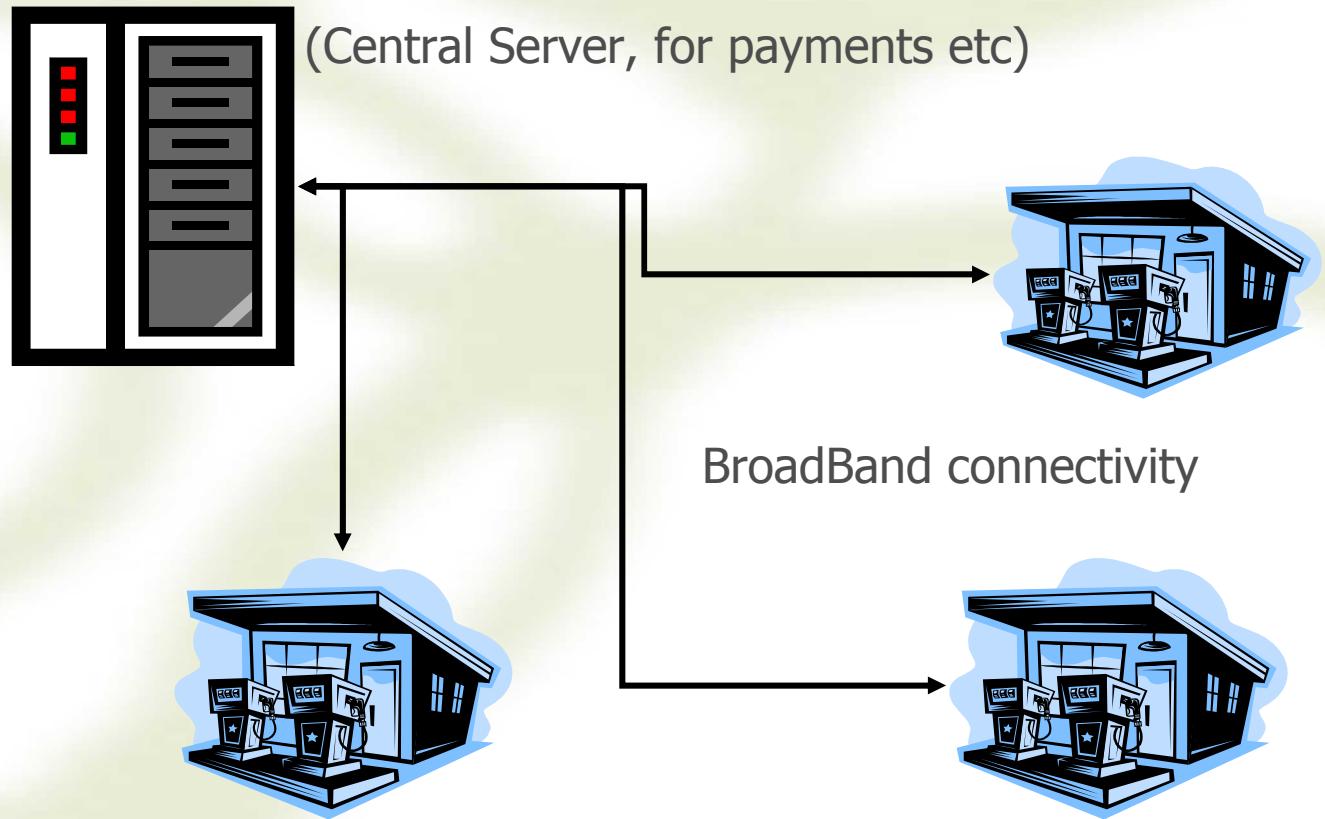
OPTimum basic functions

- RFID
- High-speed plain paper printer
- 1/4 VGA LCD or 2x20 character LCD
- Country specific (security) PIN pads
- Modular micro-processor hardware
- Separate mains for lighting/heating
- Audio-signal/feedback
- Optional: battery backup
- Alarm contacts



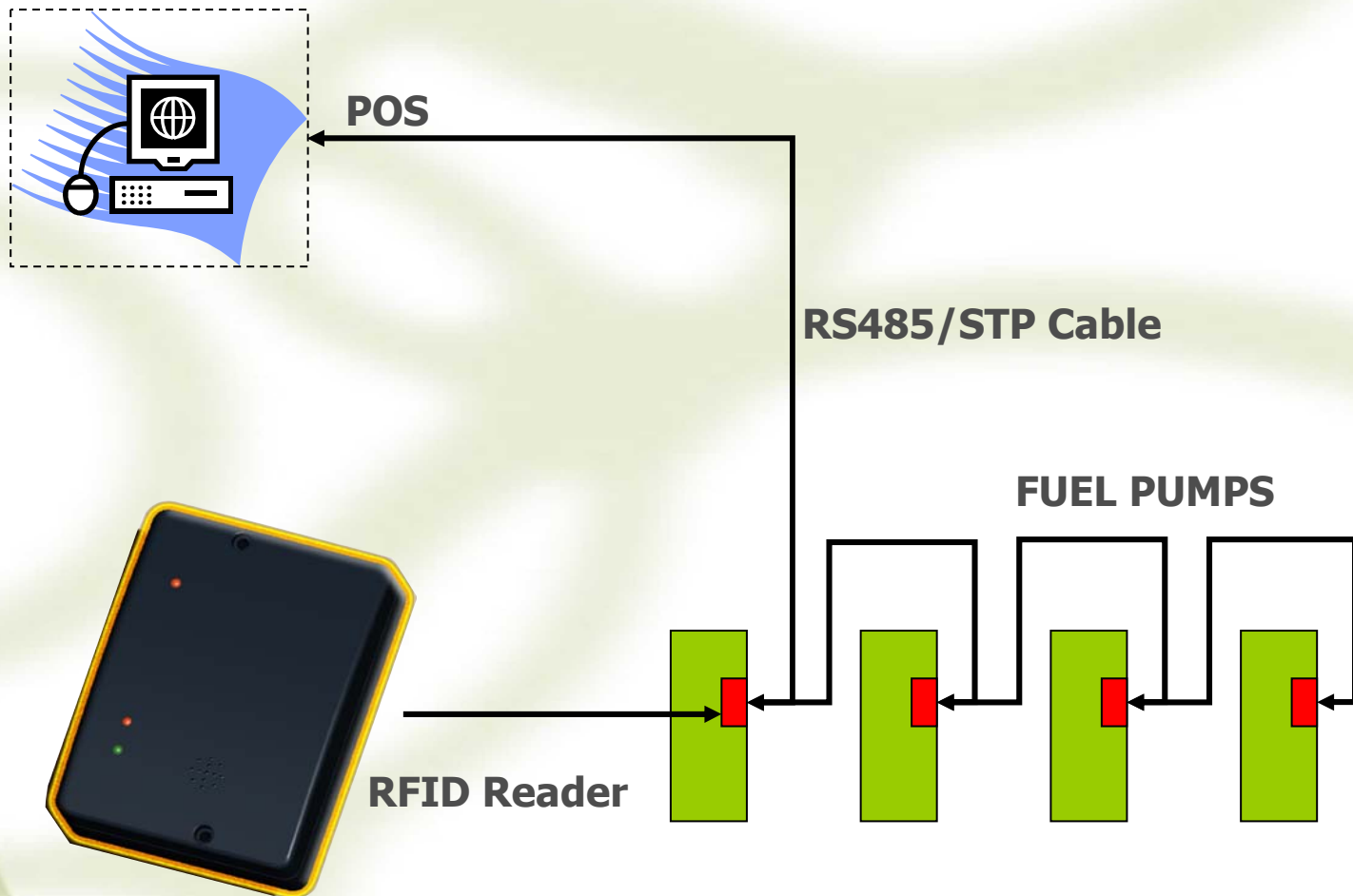


INFRA FOR TOTAL SYSTEMS LEVEL





INFRA AT THE STATION LEVEL



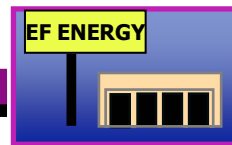
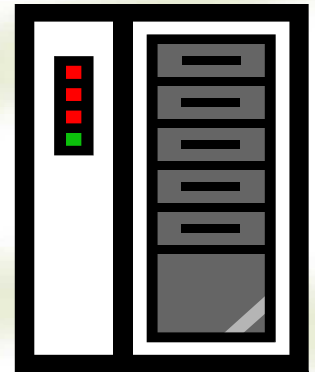


SYSTEM COMPONENTS FOR Point Of Sale (POS)

Transponder



RFID Reader

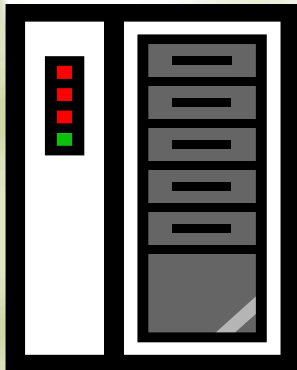


In-Store Controller

(Data Tracking)

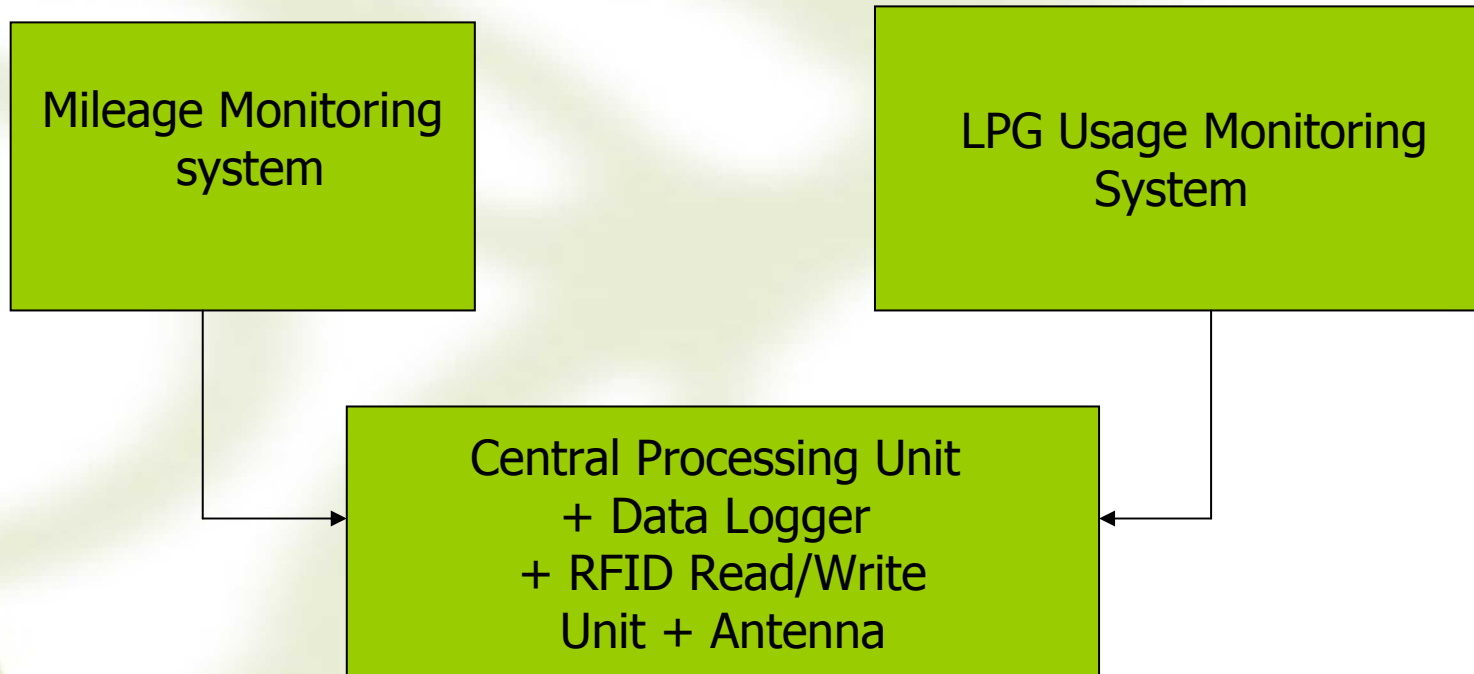


(Prepaid Payments)





RFID BASED FUEL MONITORING & MILEAGE RECORDING SYSTEM





OPTimum benefits

■ Benefits for the retailer

- *Card terminal integrated in dispenser*
- *Solutions for unattended stations*
- *Increased customer throughput*
- *EC-wide certification*
- *Contact less RFID reader*

■ Benefits for the customer

- *Customer guidance by clear user-interface*
- *RFID terminal integrated in dispenser*
- *High-speed printer for customer receipt*
- *Handling of RFID cards & banknotes*
- *Contact less RFID reader*

■ Benefits for the site-manager

- *Easy exchange from receipt printer paper*
- *Safe banknote storage with dual-lock*
- *Power backup via central unit*
- *OPTimum management via EF Energy POS*

■ Benefits for maintenance personnel

- *Single power cables for dual-sided units*
- *Mains switch in OPTimum*
- *Separate mains for logic and lighting*
- *Excellent accessibility by removable front*
- *Same hardware throughout OPTimum-range*