

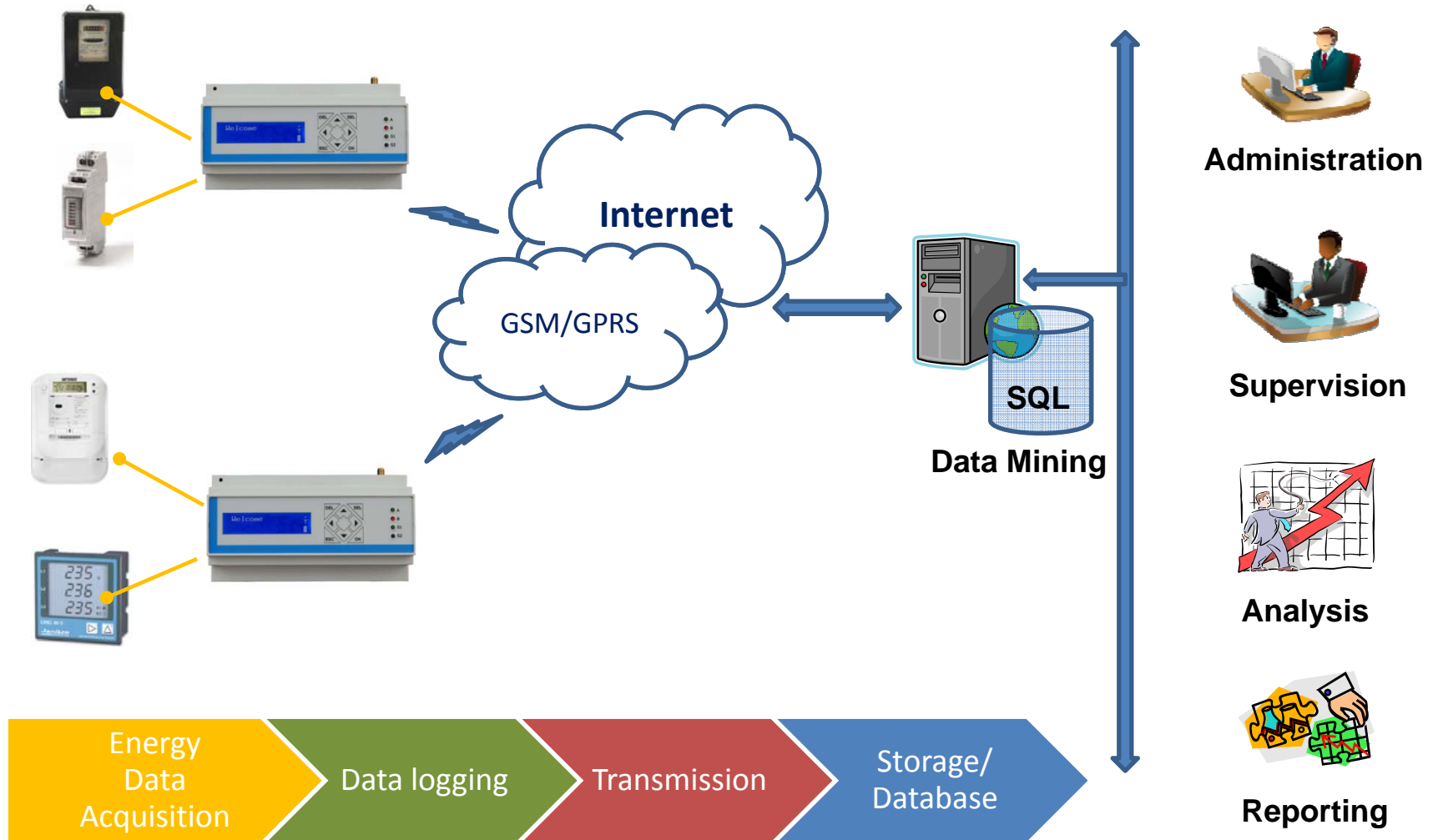
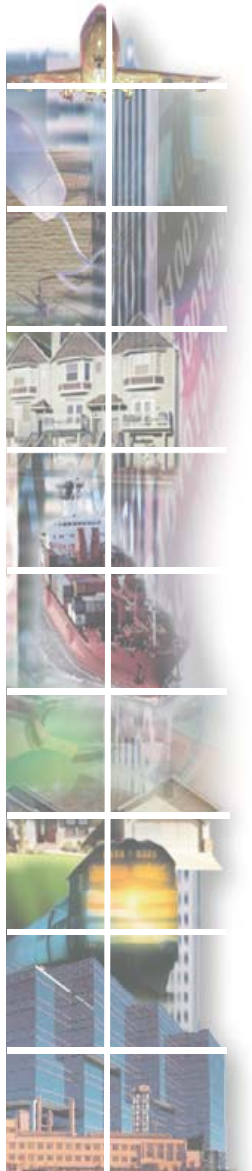
Energy Data Acquisition - A Turnkey Solution



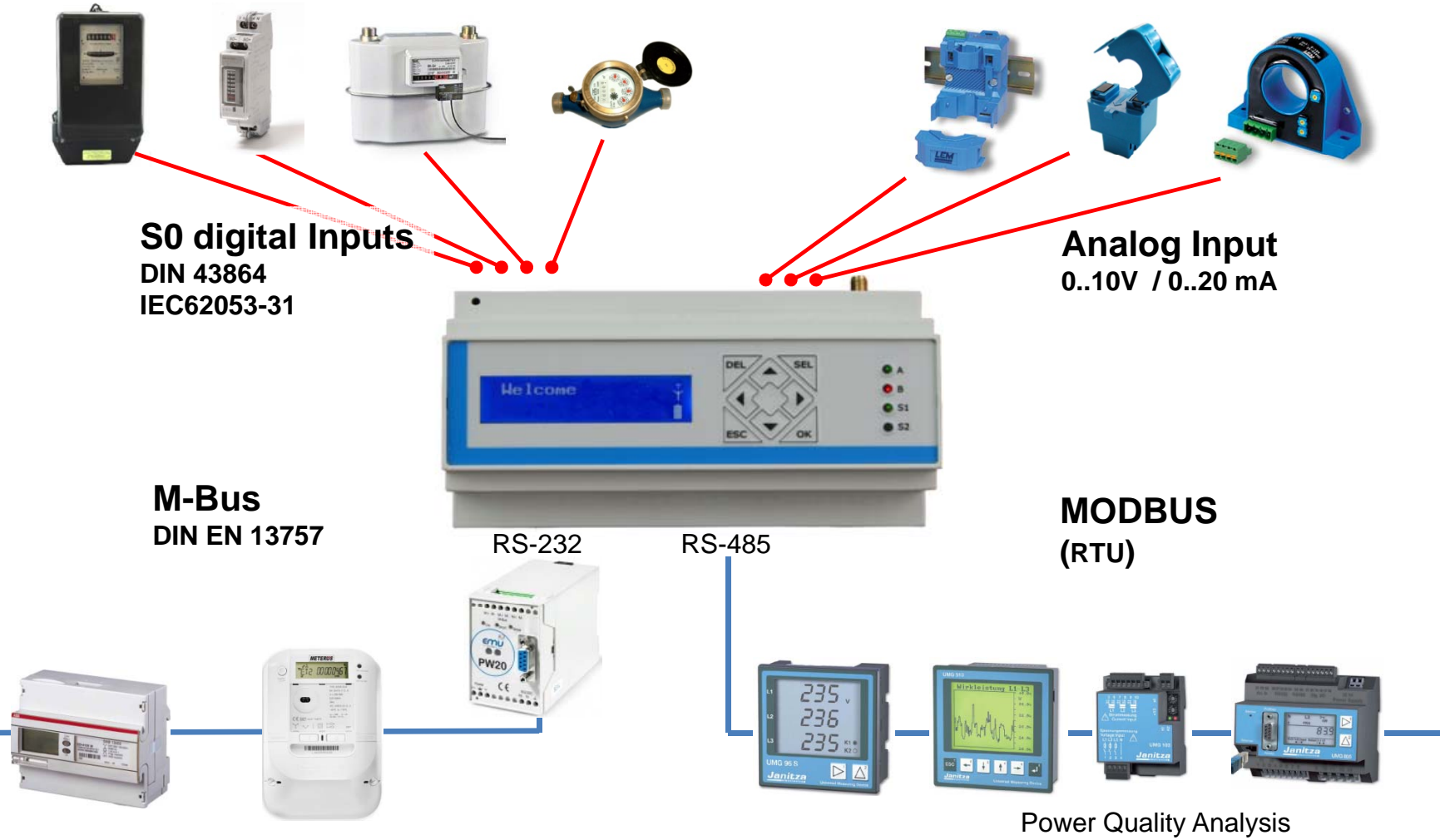
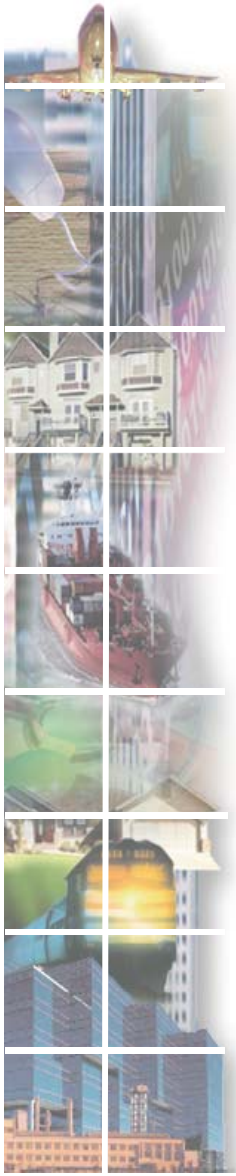
Acquiring energy data directly from the field level to the database



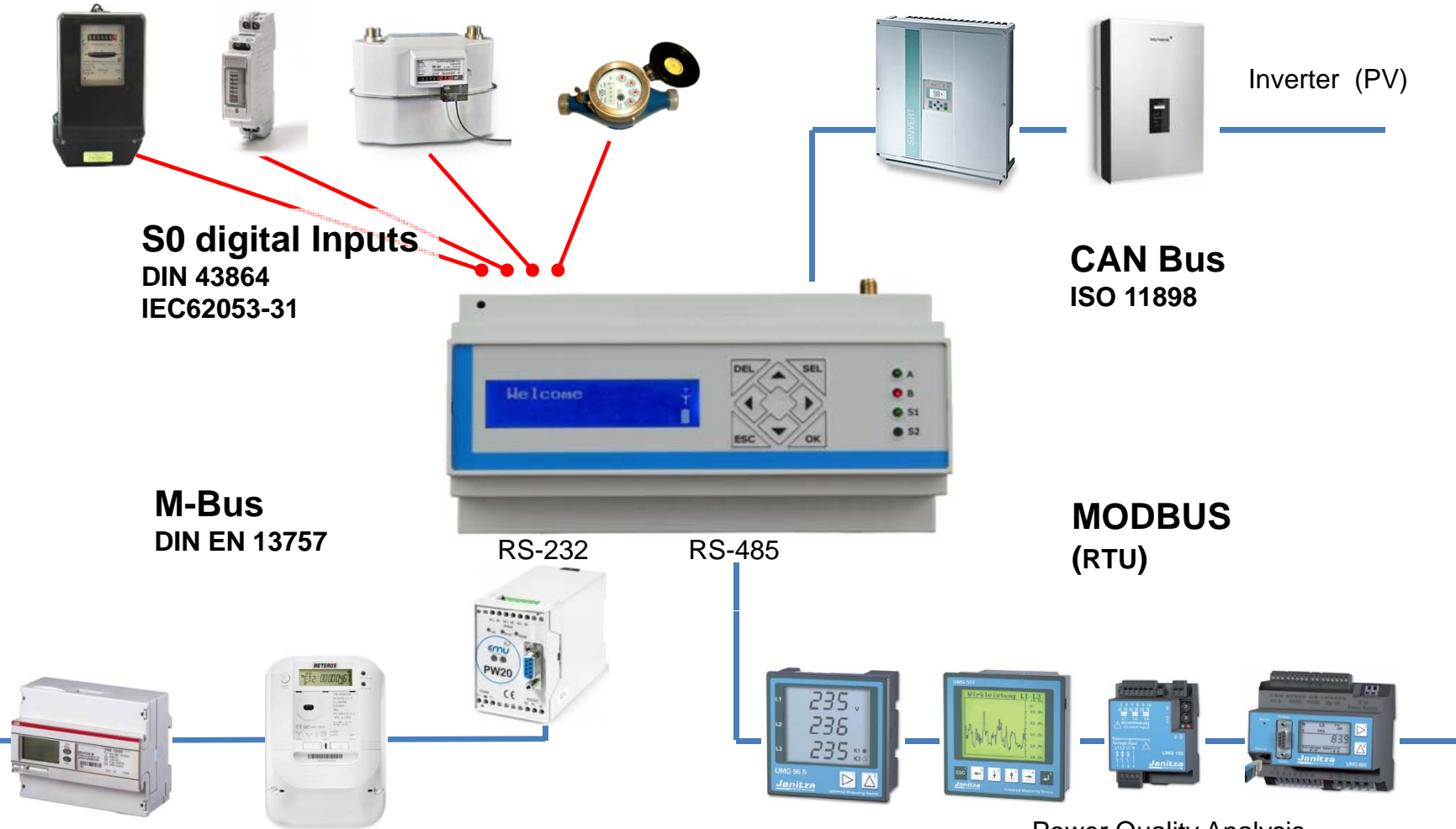
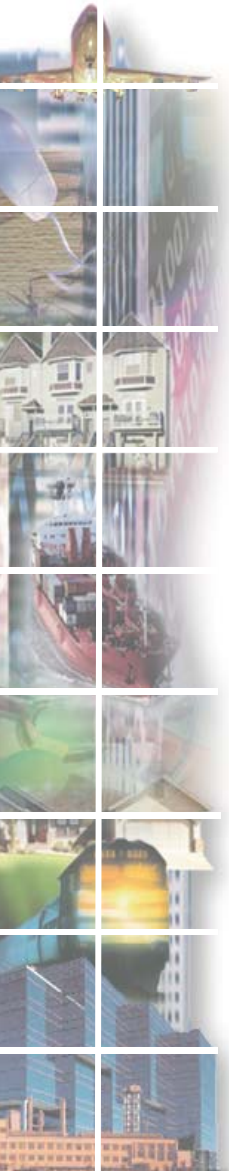
Energy-Data-Acquisition



Energy-Data-Acquisition



Energy-Data-Acquisition



S0 digital Inputs
DIN 43864
IEC62053-31

Inverter (PV)

CAN Bus
ISO 11898

M-Bus
DIN EN 13757

MODBUS
(RTU)

RS-232

RS-485

Power Quality Analysis

Energy-Data-Acquisition - Data Logging & Storage



Energy Data Acquisition



Data Logging



Transmission



Storage



S0 Input, M-Bus, MODBUS,
CAN, analog Input

512 KB / 8MB Dataflash
internal Datalogger

512 KB / 8MB int. Flashdrive
with FAT Filesystem

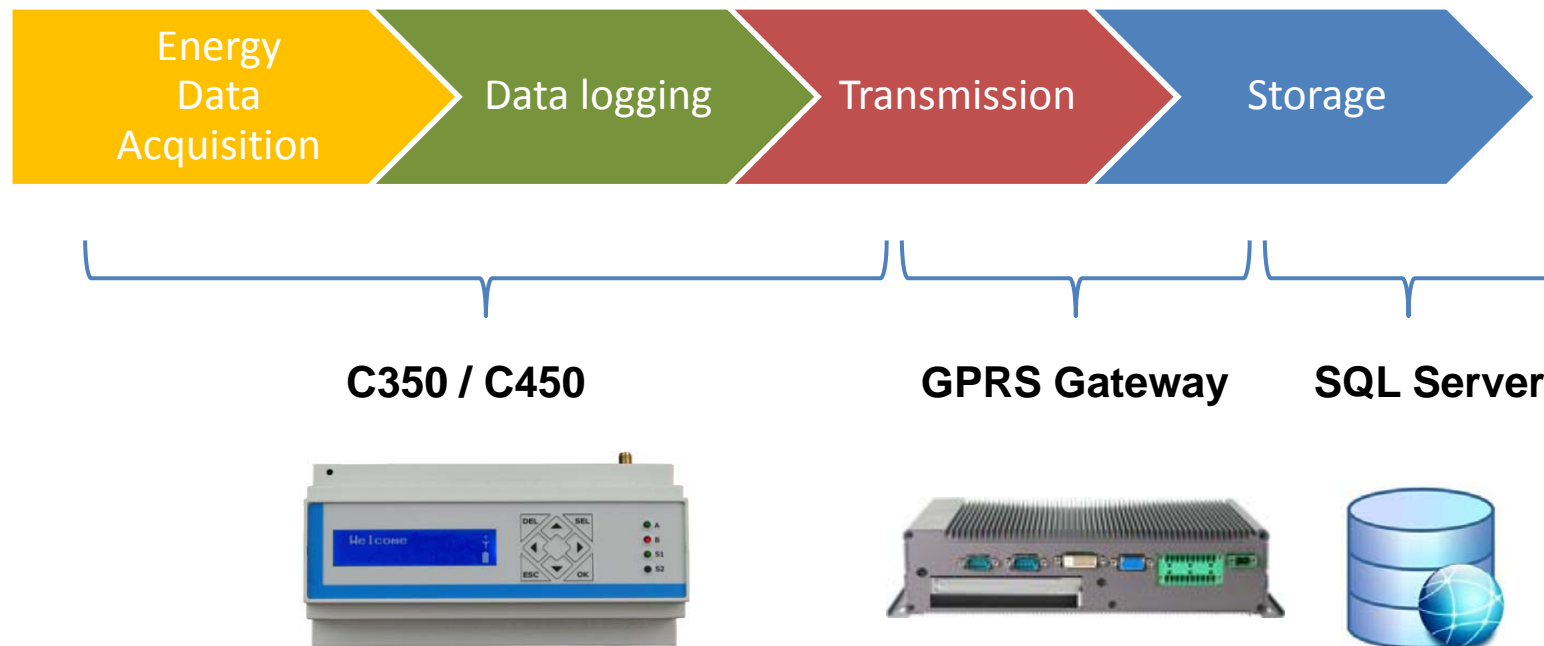
SD-Card 2 GB
FAT Filesystem, CSV Files

GSM / GPRS

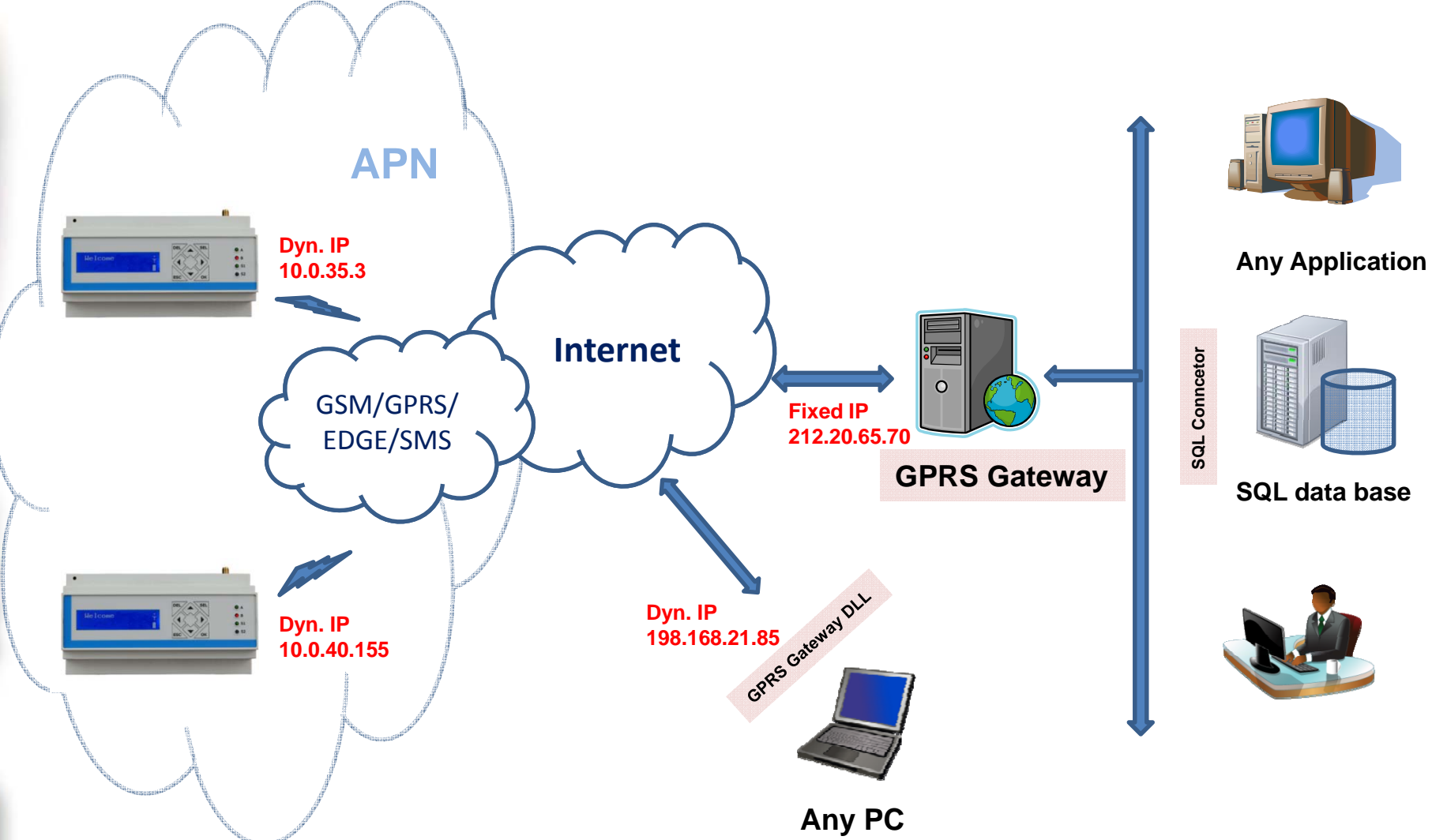
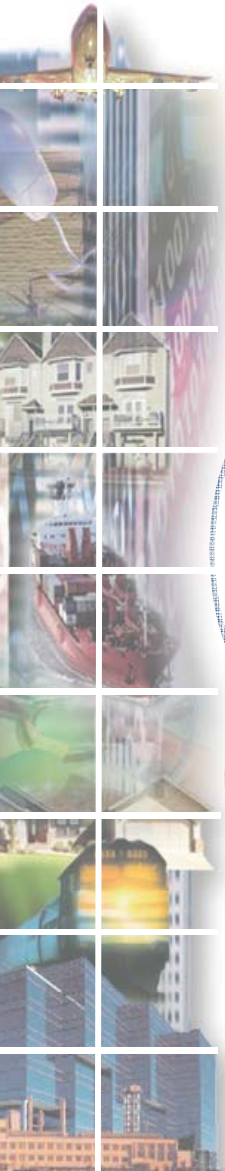
| | | | |
|---------------|-----|------|---------------|
| Email SMTP | FTP | VSMS | TCP/IP UDP |
|---------------|-----|------|---------------|

SQL Database

Energy-Data-Acquisition - Solution



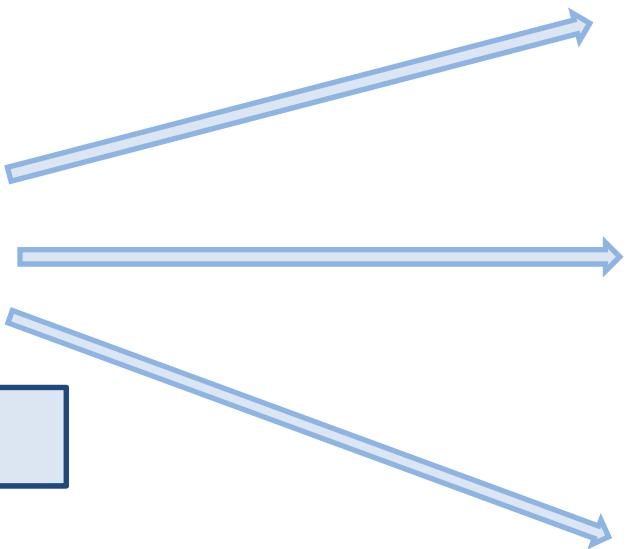
M2M GPRS Gateway



Backend Applications



Your business



Any Application



Reporting / SQL Tools
DreamReport, Crystal Reports ...



Web - Portal

Suited Modules



C350



- Display
- SD-Card
- CAN Bus
- Battery 1900 mAh

C310



- price optimized model
- Battery 700 mAh

C450



- IP67 Housing
- MicroSD-Card
- Battery 1900 mAh
- 24V und 230V Power Supply

Energy-Data-Acquisition



Summery

- M2M Control modules offer manifold interfaces to acquire energy data
50 Inputs, M-Bus, MODBUS, RS-485, CAN, analog inputs
- M2M Control modules have powerful data logging facilities
internal data logger, internal flash file system, SD-Card with FAT file system (up to 2 GB)
- M2M Control modules are power fail safe
internal battery with charger, UPS functionality, power management
- M2M Control modules offer a secure GSM / GPRS based communication
TCP/IP, encryption, authentication, dynamic and fixed IP addresses
 - multiple services to transmit energy data
SMS, Email FTP, XML, SQL
 - **writing directly to a hosted based SQL data base**
MySQL, MS SQL
- M2M Control modules providing a powerful data processing by
an IEC 6113-31 based programming environment
comprehensive function library, multitasking, firmware upload over the air (FOTA)



Infranet Technologies GmbH

Tempowerkring 2
21079 Hamburg – Germany

Phone +49 40 696 47 – 260

Telefax +49 40 696 47 – 259

info@infranet-technologies.com

