

M2M GSM/GPRS in applications

KLINKMANN

- 160 experts in 6 countries
- Industrial communication sw from 1990, GSM/GPRS automation sw from 1996
- Over 1000 device/OEM customers in 60 countries



Wireless M2M solutions wireless supervision and control

Concepts:

- SMS
- GSM-data
- GPRS

Objects:

- alarms, controls and metering
- industrial and building automation
- tank, temperature etc. monitoring
- vehicles
- other objects

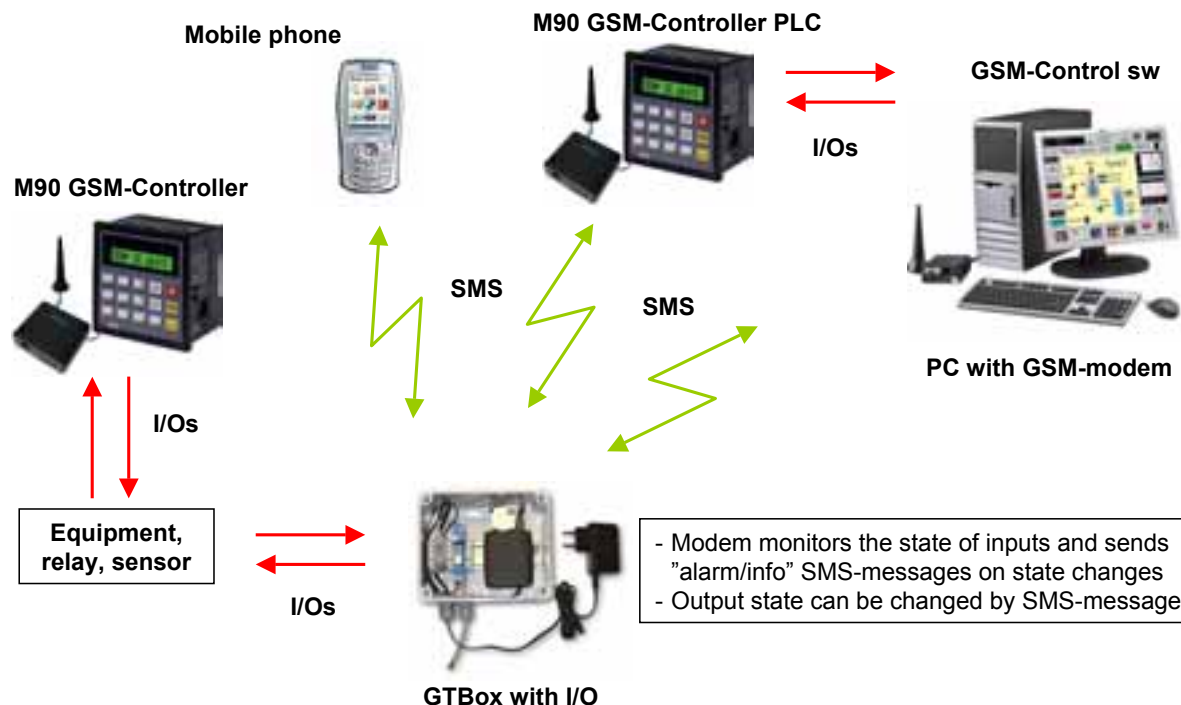


M2M I/O-units and controllers

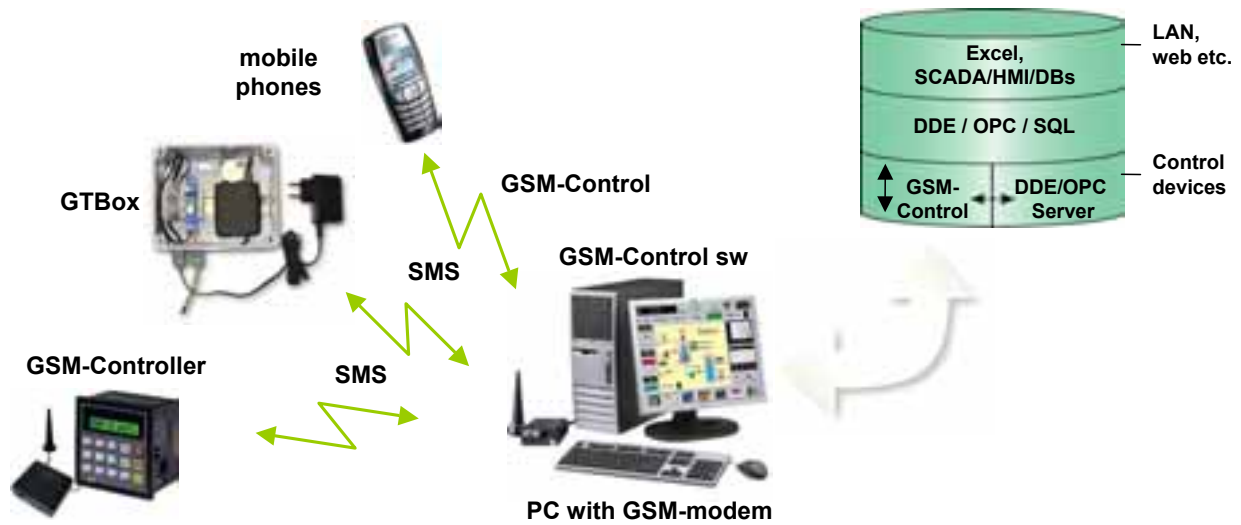
- **GTBox (SMS), a.350 EUR (incl. modem)**
 - basic I/O controls, 2-way on remote basis
 - programming with SMS (by phone or PC with GSM-modem)
 - alarms, metering, basic controls on remote basis
- **GSM-Controller (SMS and GSM-data), a.390 EUR (incl. modem)**
 - PLC with text HMI, incl. PC programming s/w
 - max 64 I/O (Dig and Ana)
 - remote controls with SMS (programming also with GSM-data)
 - local controls with own CPU
- **GPRS-Controller (SMS, GSM-data and GPRS), a.600 EUR (incl. modem)**
 - PLC with graphic HMI, incl. PC programming s/w
 - max 160 I/O (Dig and Ana)
 - remote controls with SMS and/or realtime GPRS
 - local controls with own CPU
- **Siemens GSM- and GPRS-modems and modules**
 - Klinkmann supplies Siemens modems and antennas with competitive pricing, ask offer



1. SMS based solution: GSM-modem and I/Os

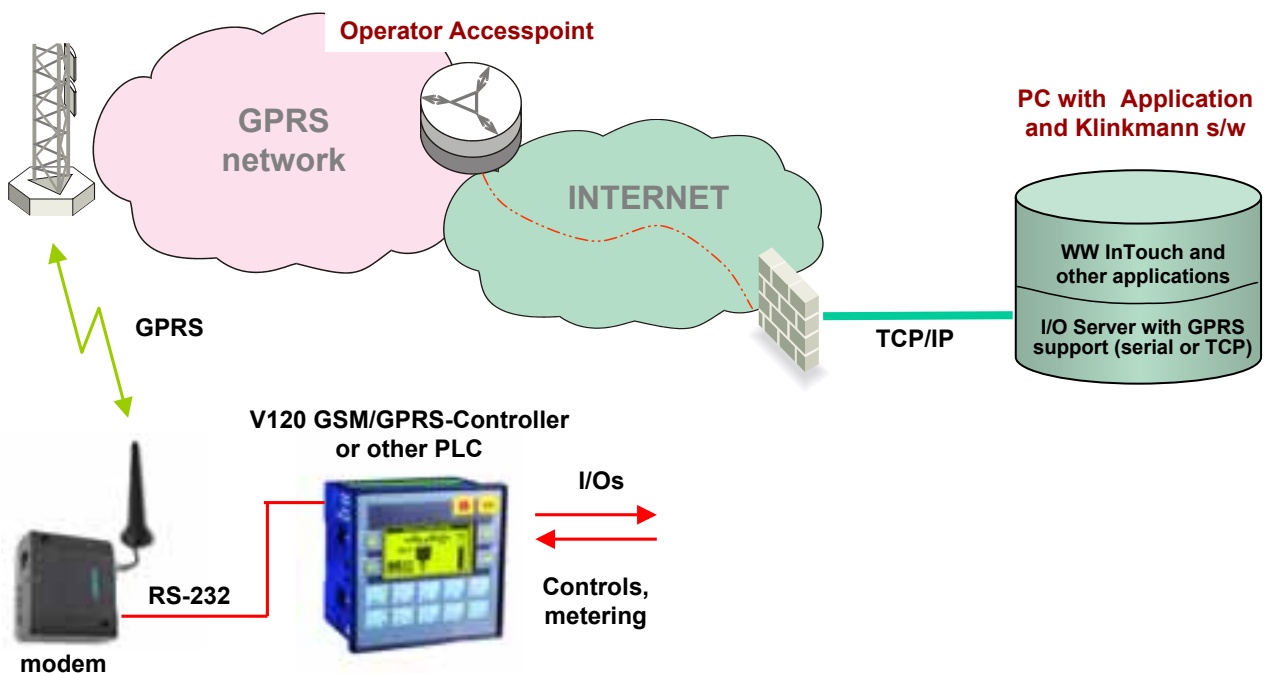


1.1. GSM-Control SMS-software based solutions

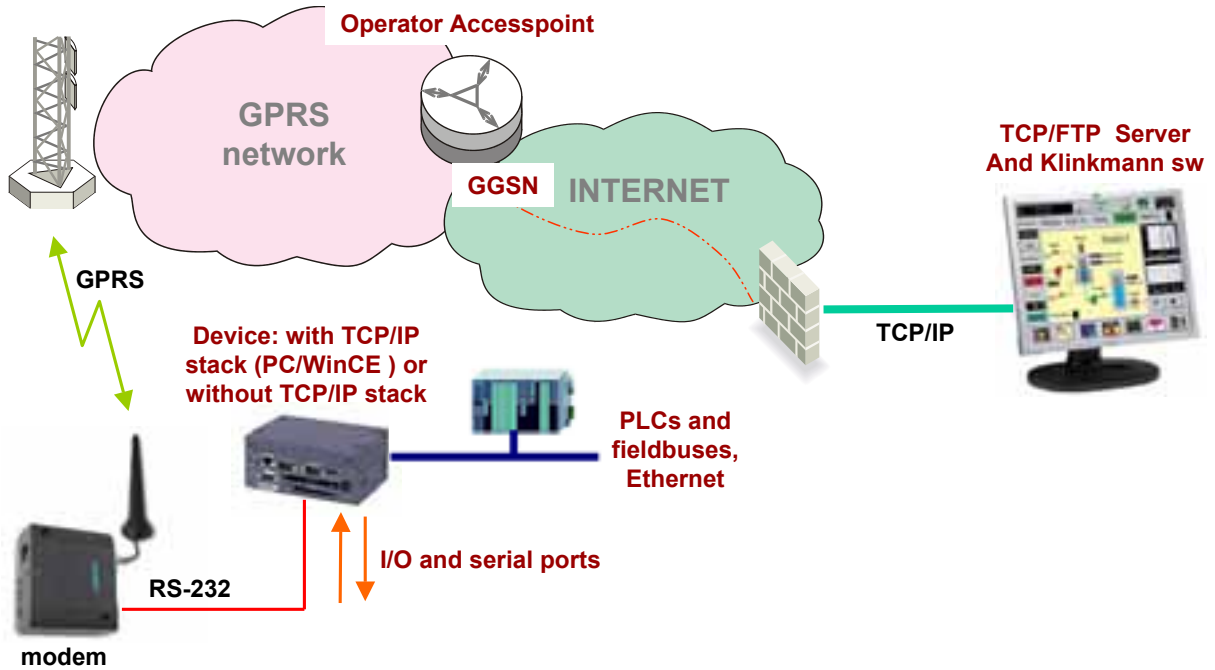


- GSM-CONTROL SMS Gateway software is used for 2-way remote control in Automation and other applications using GSM-modems and phones
- Works as a gateway between GSM environment at one side (interfacing with GSM environment by sending/receiving SMS-messages) and MS Windows environment by using DDE, OPC or SQL interfaces at another side

2. GPRS and modem based solution: serial PLC/device and PC I/O Server



2.1. Wireless data transfer as files over GPRS – via modem and FTP or TCP based



3. GPRS/WAP Tool software based solutions

