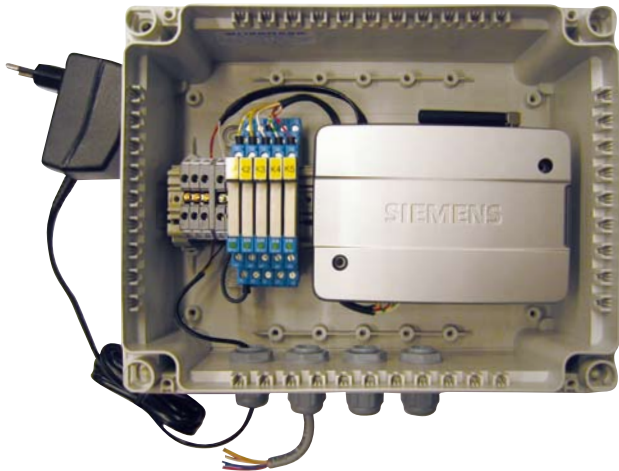


# GSM TCBox Remote Controller

Bring supervision and remote control profitably to GSM-era.  
SMS-operated remote machine supervisions for mobile phones and PCs

**KLINKMANN**

www.klinkmann.com



**Refrigerating devices, heaters, pumps, containers, air conditioning, power generating sets etc. machines and devices:**

- switch operated alarm and status messages
- temperature, pressure etc. analog measurements as numeric data
- easy and economic connection to various devices

- easy aftermounting to electric devices
- set value programming with mobile phone Short Messages; easy reprogramming for example according to shifts
- if necessary Klinkmann adapts the mounting box and instrumentation case by case; also for outdoor use to various devices

GSM TCBox is a mounter-friendly total solution based on a preprogrammed GSM-modem and mounting box, equipped with all necessary connectors and power supply. Totally 10 digital inputs and outputs available, the exact configuration can be selected depending on application.

The potential free contact in supervised device (alarm or status) is wired to the connectors of TCBox. A LED indicates TCBox's status. The power supply is a plug-in version.

GSM TCBox modem and terminals are mountable on a Din-rail as embedded part of machine controls.

GSM TCBox is configured by sending to it a mobile phone Short Message containing service man's phone (or modem) number and alarm message. TCBox is easily reconfigured for example according to shifts. A security code guarantees safe remote operations. So TCBox is fully operated by standard mobile phone. A PC SMS software and GSM-modem is available for multi-unit applications and for SMS-management. TCBox can be customized for multi-input and output applications.



## Short Message operated remote controls:

- switch-operated startings as static state control or as pulse control
- machinery status feedback and status inquiry functions

## Advanced applications with SMS/GSM-Data/GPRS-technology

- vehicle fleet positioning with GSM- or GPS-positioning
- laundry (payment applications)
- temperature measuring by using 1-Wire® Digital Thermometers
- door/gate opening according to allowed numbers list
- GPRS-data transfer to standard PCs using FTP protocol

## Standard-models

*Option: 1-wire temperature sensor network; maximum amount of sensors 16 pcs, maximum length of sensor wire 300 meters*

- GSM TCBox 1in**
- GSM TCBox 3in**
- GSM TCBox 3in + battery backup**
- GSM TCBox 5in**
- GSM TCBox 3in + 3out + analog input**

**Dimensions:** 240 x 190 x 94 (cover transparent or grey)

**Power supply:** 230 VAC 50 HZ

**Connections:** all connections relay isolated

**Digital Inputs:** max. 10, potential-free inputs, contact open - logical "1", contact closed - logical "0", protected with unidirectional TVS

**Digital Outputs:** max 5, type - transistor, low side switch, logical "0" - switch off, logical "1" - switch on, voltage 50V max, current max. 100 mA

## GSM/GPRS-modems and PLC-units

Modems are easy to connect to GSM/GPRS PLCs with AT-commands. GSM-controller and GPRS-controller provide in a single compact unit: PLC (max. 160 I/O), display and a keypad for local and remote controls. Ask for more information!

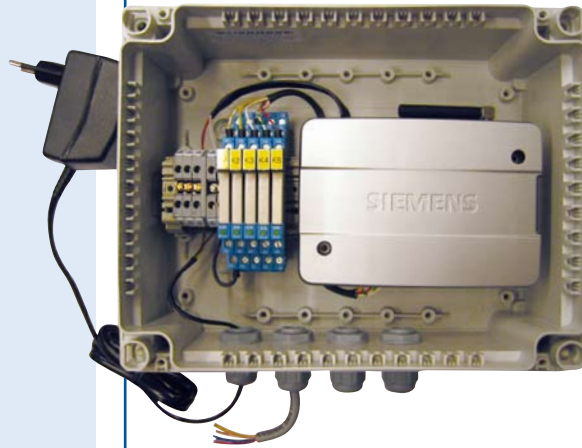


# TCBox typical customer applications – with ready SMS control concept

Monitoring via mobile phone and/or PC with GSM-modem

## TCBox brings advantages:

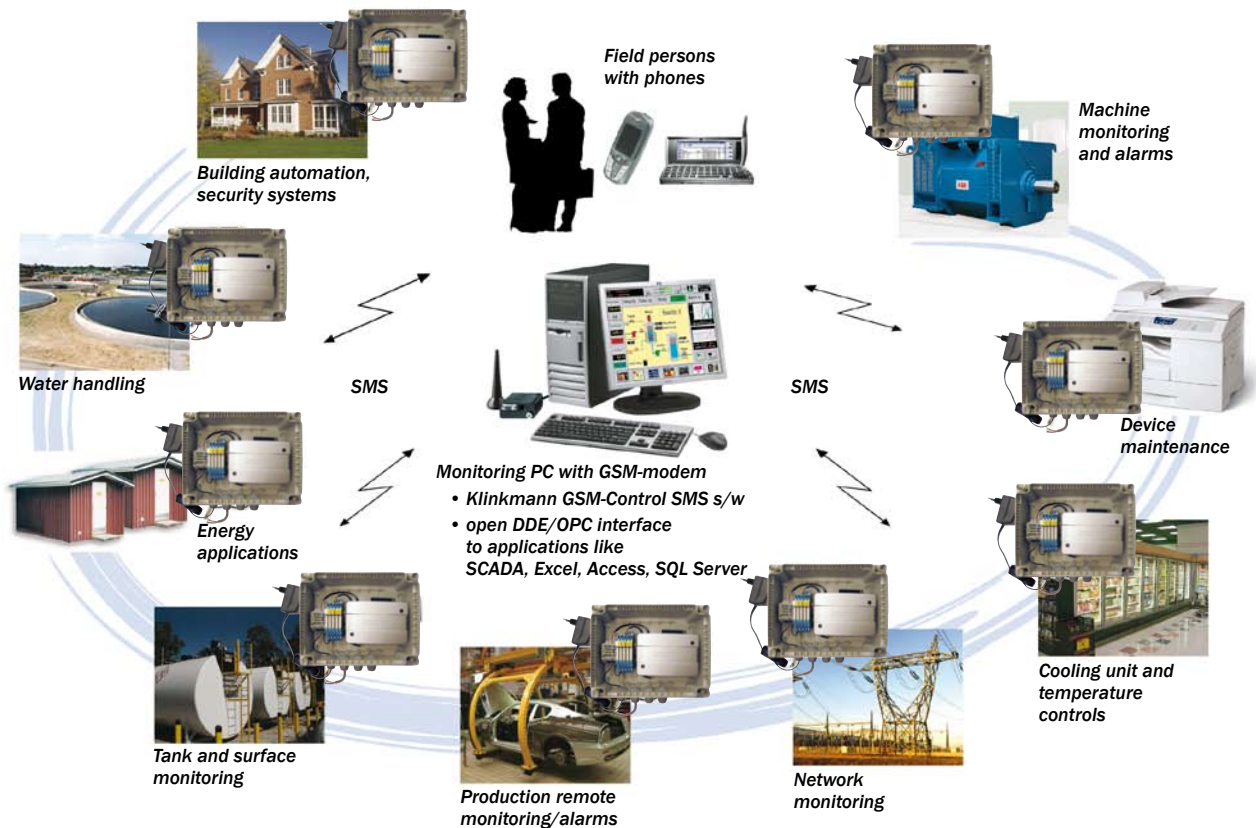
- easy to test and pilot in few hours and with low investment
- all configuring can be done with mobile phone and SMS
- plug-and-play unit with enclosure, relays etc. for wire connections
- easy to install also into existing devices and applications
- scalable concept from single unit to wide systems with PC monitoring
- easy to adjust into customer's needs



TCBox with I/O's to controlled devices and/or sensors

TCBox has options:

- battery backup
- heating/outdoor models
- special relays etc.



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