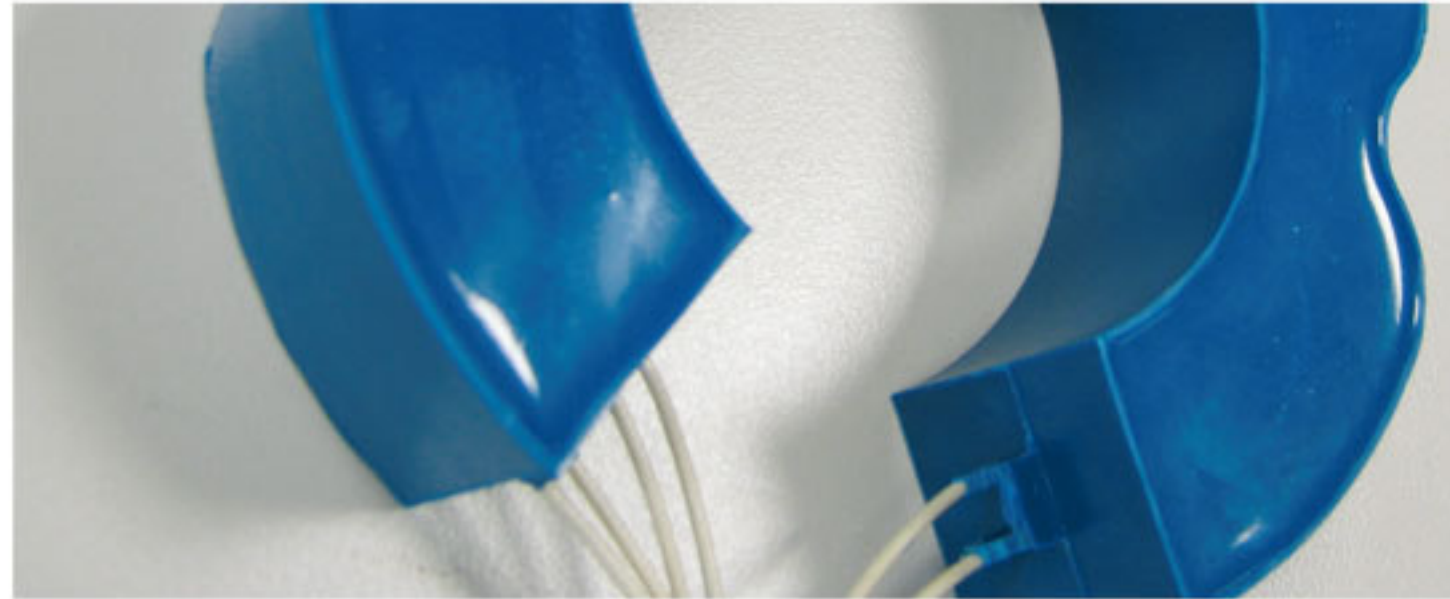




EUPSIM[®]

Submersible motor pump control system
with integrated microcontroller module
with transceiver

- Data communication without additional signal cable
 - No contact to liquid due to separate system
 - Integrated pressure and level measurement
 - Motor temperature measurement
 - Alarm and event messages
- Protect the motor from over and undervoltage,
over and underload and phase failure
- Communication to process control systems



EUPSIM[®]



Highlights of functionality

- Bidirectional communication between motor and control unit.
- From motor to switching cabinet: temperature of motor, pressure, level, message of alarms and limiting values, more physical values on inquiry.
- From switching cabinet to the motor: switch signals, adjustment parameters and calibration data.
- Data communication via motor power cable with Power Line Communication (PLC) – no separate cable necessary.
- Implementation of new techniques for the control and monitoring of submersible motor basing on recording and evaluation of additional values at bad accessible locations.
- Data communication between the control unit and the control centre, at a optional widely distant location via internet, GPRS mobile communications.

System Construction

The system consists of three main components:

- Control centre for the remote control and monitoring this pump installation with generally multiple/divers submersible motor pumps and connection to control line, internet or mobile communications.
- Control unit for monitoring of the pump including communication module for data exchange between the integrated microcontroller module (MCM) of the submersible pumps of motor and Control centre. The aboveground area consists of divers control units.
- Submersible motor pump with integrated MCM included transmitter.

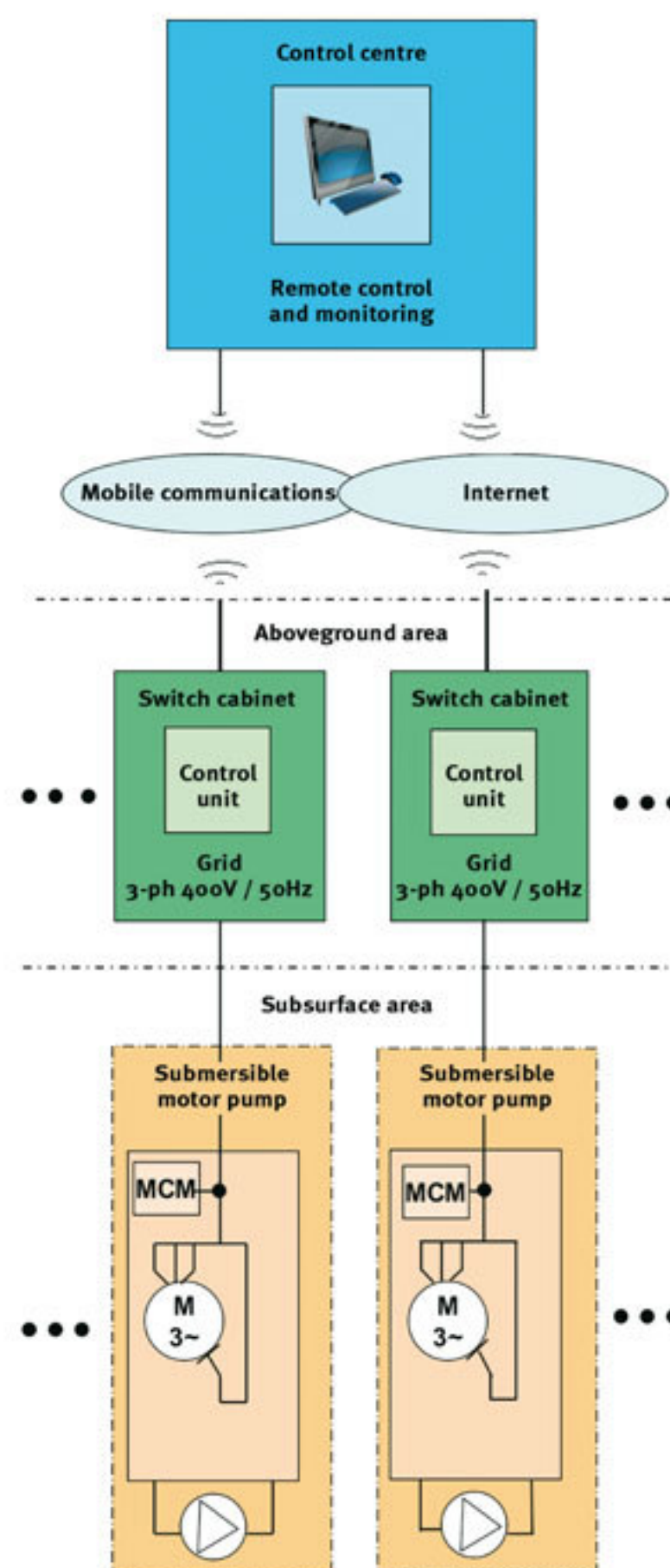


Diagram of the complete system



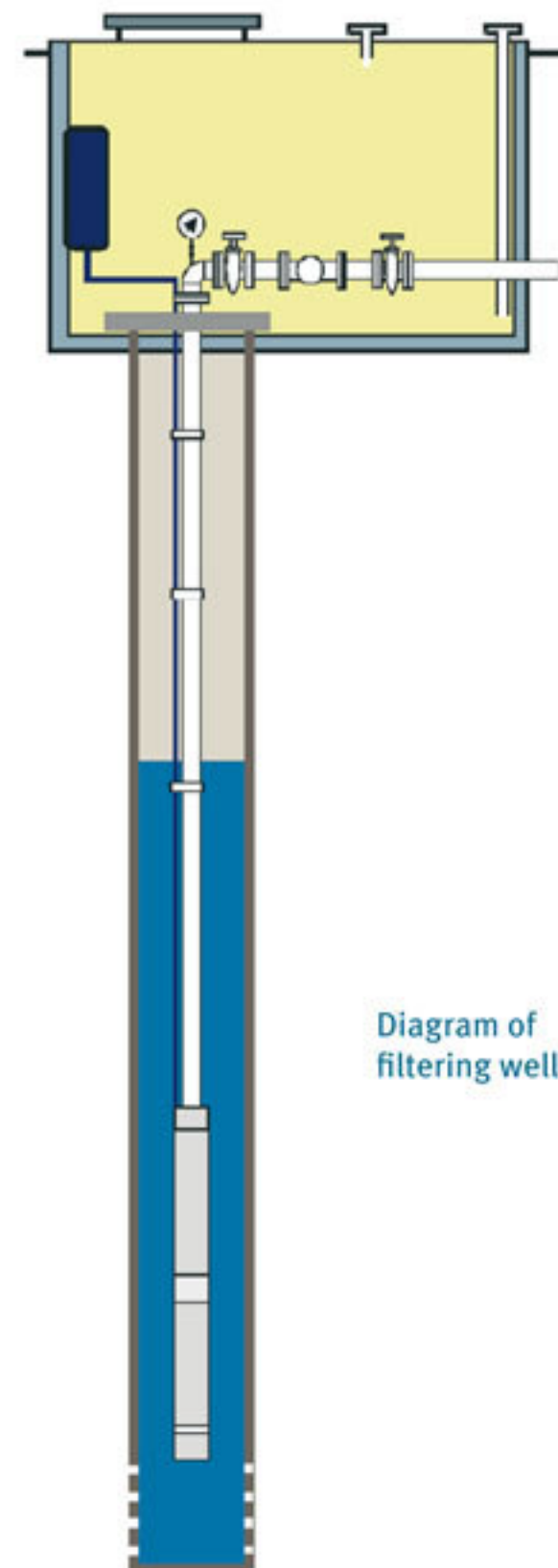
Design and development of EUPSIM®

The innovation EUPSIM® was developed and built by the Elektro- und Automatisierungstechnik GmbH in Ilsenburg (Harz). Here the development was made progress till the practical use of the system solution together with our partner oddesse Pumpen- und Motorenfabrik GmbH Oschersleben GmbH. Both partners sell this system and take on the installation, commissioning and service.

The utilisation of EUPSIM®

EUPSIM® conduce to monitoring and controlling of submersible motors

- At mining
- At agriculture/farming
- At building industry
- At industry
- At water supply
- At environment technologies
- At control of ground water
- Sea water extraction
- Geothermal water extraction
- Pressure increase in systems
- At energy industry
- And at client-specific applications



Guaranteed quality for our customers

EAI and oddesse are DIN-certified EN ISO 9001:2008.





Elektro- und
Automatisierungstechnik
GmbH Ilsenburg

oddesse
Pumpen Motoren Systeme



EAI Elektro- und Automatisierungstechnik GmbH Ilsenburg
Bakenröder Straße 11, 38871 Ilsenburg, Germany
Tel.: +49 (0)39452-964-0, Fax: +49 (0)39452-964-15
info@eai-net.de, www.eai-net.de

oddesse Pumpen- und Motorenfabrik GmbH
Am Pappelwald 12, 39387 Oschersleben, Germany
Tel. : +49 (0)3949-932-0, Fax: +49(0)3949-932-463
info@oddesse.de, www.oddesse.de



Herausgeber: EAI Elektro- und Automatisierungstechnik GmbH Ilsenburg
Gestaltung: IIEF GmbH Berlin, Druck: Grafische Werkstatt Franz Pruckner

Vertrieb durch (Firmenstempel):

