Data Acquisition Unit

Operating voltage: **12-30 V DC**
Possible to use own power supply (see later)
Operating temperature: **0 degrees C to + 70 degrees C**
Typical stand-by power consumption: **100 mA @ 12V DC**
(depends on the modules installed)
Mechanical dimensions: **156 x 85 x 58 mm**
Mounted on a DIN M36 rail

1 . Interfaces

Digital inputs
Number of inputs: **8 to 12**
(independent, optically isolated)*
Characteristics of input signal: **Voltage impulse**
Max. frequency of input signal: **100 Hz**
Polarity of input signal: **positive or negative**
Input device: **optocoupler**
Max. input voltage: **50 V**

The inputs can be configured as either general purpose
inputs (e.g. switches) or as impulse counters
(e.g. electromechanical counters)

Digital outputs
Number of outputs: **4 to 8**
(4 high current relays, 4 low current open-collector
transistors)*
Relay output capabilities: **230V 50/60Hz AC / 10 A**
Transistor outputs capabilities: **50V DC / 1 A**

* 4 I/O lines are hardware configured individually
to either input or output

Local connectivity
2 general communication ports configured to
RS232, RS485 or USB
On-board Bluetooth radio module (optional)
On-board 433MHz radio module (optional)

Remote connectivity
GSM 900/1800/1900 MHz mobile phone system
CSD (9600 bps) or GPRS (max. 53.6 Kbps) data transmission
Industrial GSM module
Data encoding allows secure transmission

2. Storage capacity

Up to 1000 events, the events are stored along with
date/time info.
Recorded events: input changes, output changes,
power on/off events
Stores the status of all inputs and all counter values
(if configured as counter input)

3. Data monitoring with PC software

Possibility to monitor all inputs and control all outputs
in a user-friendly PC software.
GSM modem is connected to PC to call the machines.
Installed on an individual PC or in a PC network.
Database system to store all machine-related data.
Access individual machines, possible to interact real-time.
Schedule automatic periodical read-outs, saves the
data in files.
Operating system: **Win98, Win2000, WinXP, Linux**
System requirements: configuration necessary to supply
the operating system.

4. Data monitoring with mobile phone

The unit contains a WAP server so all functions are
accessible with a standard mobile phone using a
WAP 2.0 browser. The software interface (WAP page)
stored in the unit controls the outputs and monitors
the inputs through a menu system.

Power supply

Input voltage: **230V 50/60Hz AC**
Output voltage: **12V DC**
Operating temperature: **0 degrees C to + 70 degrees C**
Mechanical dimensions: **105 x 85 x 58 mm**
Mounted on a DIN M36 rail
Battery charger included for lead-acid batteries
Battery is not included in housing

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Data
Acquisition Unit

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