



**EUROMAG**  
INTERNATIONAL

# Euromag GSM/GPRS Integrated System

*The innovative way to deliver, monitor, and manage data*  
Compatible with MC608 A/B/R – and MC406



*Simple*  
*Effective*  
*Cost and time efficient*  
*Universal*  
*Complete*  
*Reactive*  
*Compact*  
*Safe*

*"One Cannot  
Not Communicate"*

- Paul Watzlawick

## Characteristics

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**Simple** easy to use and user-friendly programming

**Effective** sends your data anywhere everywhere to SMS, E-mail (with or without attachment), web ([www.euromagdata.com](http://www.euromagdata.com))

**Cost and time efficient** maximize productivity relying on latest mobile technology and reducing costs of data collection

**Universal** compatible with SIM cards of all GSM carriers, worldwide (5 band modem)

**Complete** flow, pressure, temperature; all information always under control

**Reactive** real data and alarms in real time

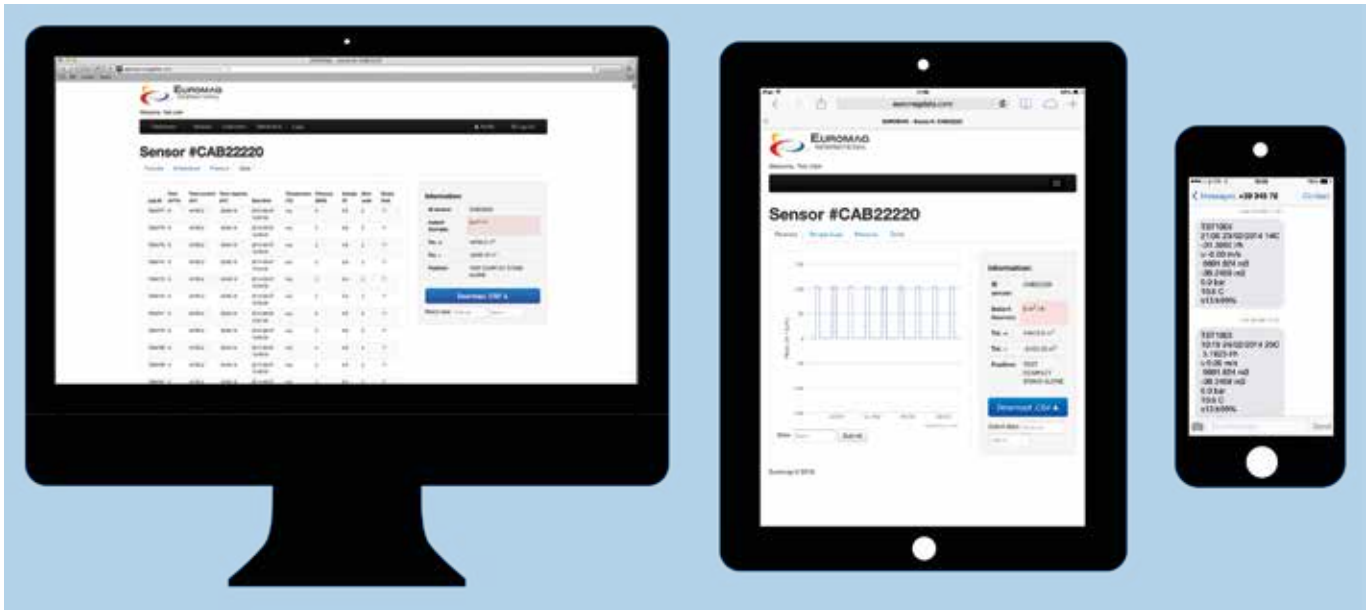
**Compact** all in one, no extra modules attached

**Safe** sensor and converter can be placed in a safe place such as underground pits, with only the antenna running out.

Available as a built in module, the wireless Euromag GSM/GPRS System allows continual monitoring of all kind of water applications, even when temporary. Excellent solution for consumption monitoring, and leakage applications in combination with MUT1222 insertion unit

The wireless Euromag GSM/GPRS System transmits flow measurement data, together with pressure and temperature when available, to a designated recipient via e-mail, SMS or to the dedicated website [www.euromagdata.com](http://www.euromagdata.com), at customizable intervals throughout the day, week, month etc, with no need of costly and complex proprietary software.





## SMS informations

- ▶ sensor ID
- ▶ time/data
- ▶ converter internal temperature
- ▶ flowrate
- ▶ corresponding flow velocity
- ▶ positive totalizer
- ▶ negative totalizer
- ▶ line pressure\*
- ▶ line temperature\*
- ▶ network signal strenght /battery
- ▶ alarms (if any)

\* only available with the line pressure / temperature option installed

### ALARMS LIST

**CE** > coil excitation failure

**EP** > empty pipe detected

**FH** > high flowrate (over the selected threshold)

**FL** > low flowrate (below the selected threshold)

**PO** > pulses overlap

**RE** > flowrate read error

**LV** > insufficient voltage detected

**HT** > high converter temperature

**LT** > low converter temperature

## Data Transfer

- ▶ SMS up to 5 different phone numbers
- ▶ E-mail: simple text e-mail or a complete e-mail with attachment including all data collected from last sending
- ▶ Data on the Web: dedicated website for complete monitor and management of flow, pressure and temperature, from all flowmeters. CSV files available

Automatically set date, time, customize transmit intervals, transmit methods (SMS, E-mail or web), set receiver phone numbers and e-mail address, set sender data. Available profile configuration for immediate programming of different modules.

Transmission period can be set independently for SMS e-mail or web. All programming can be easily performed via the dedicated software provided with the module

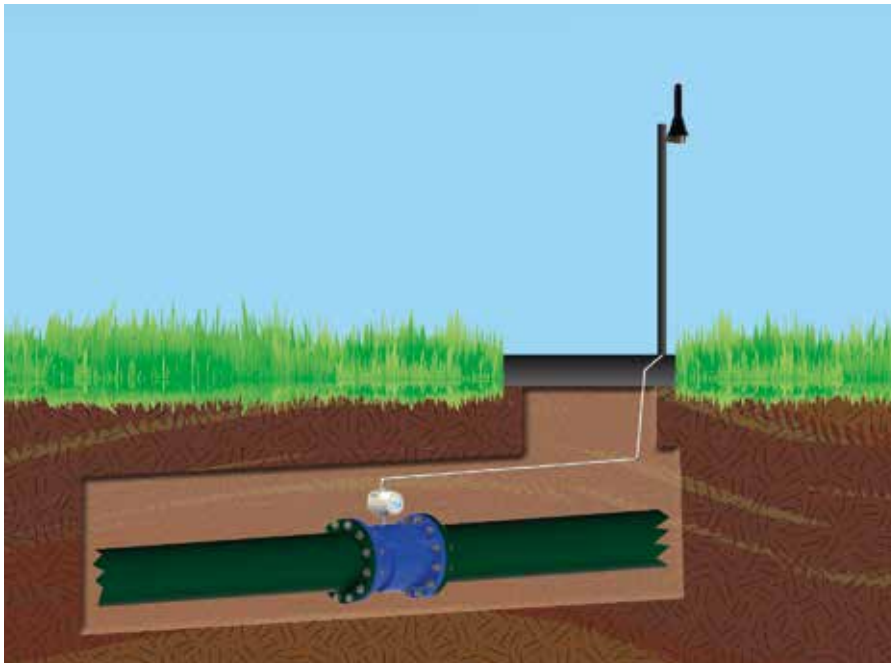
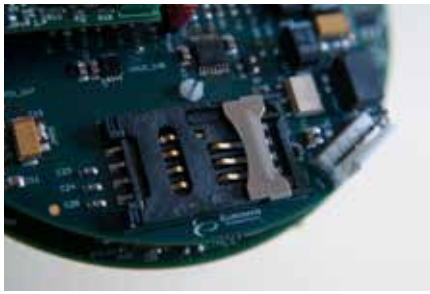
Easy programming: you can connect your laptop with the dedicated Ircom cable and program via the Euromag GSM software provided with the module.

### SELF POWERED

**no extra battery needed. Integrated battery pack for >5 years\***



\*battery life depends on transmit frequency



## Applications

- ▶ Network modelling
- ▶ Flow; district and zone monitoring, consumption monitoring
- ▶ Irrigation
- ▶ Water supply
- ▶ Water treatment
- ▶ Municipality
- ▶ Pressure monitoring
- ▶ Leakage detection
- ▶ Overflow and low flow detection
- ▶ Remote area monitoring

## 3 antennas available



Standard antenna for all applications



Flat surface mounting antenna, anti-vandalism, anti-theft, for more robust applications, and for underground installations in pits.



High gain antenna (12 dBi), specifically designed for use in remote areas with poor signal coverage



# Specifications

<b>Operating Bands 3G</b>	B5, B8, B2, B1, B4
<b>Frequency Bands (MHz)</b>	800/850, 900, AWS1700, 1900, 2100
<b>Throughput DL/UL (Mbps)</b>	21/5.7
<b>Modem</b>	penta band GSM/GPRS/EDGE/3G
<b>Regions</b>	WORLDWIDE
<b>Supported interface</b>	SMS, E-mail (with or without attachment), Data on the Web ( <a href="http://www.euromagdata.com">www.euromagdata.com</a> )
<b>E-mail client/server protocol</b>	SMTP
<b>Data Transmission</b>	1 hour, 1 day, 1 week, 1 month at programmable date and time, SMS, e-mail and Web data independently
<b>Compatibility</b>	Any GSM carrier worldwide
<b>Antenna</b>	Standard antenna / Flat surface mounting antenna / High Gain antenna. Compact or remote, cable length on request.
<b>Functionalities</b>	Simple configuration via supplied dedicated software Different sample rates offering open logs for diverse applications via a simple CSV file containing: serial number of the unit, instant flow, total positive, total negative, date and time of log, temperature, pressure, battery volume, error event
<b>Alarms</b>	Coil excitation failure, empty pipe detection, High or Low flow, Pulse overlap, flowrate read error, insufficient voltage, high or low converter temperature
<b>Battery life time (one day transmission)</b>	Standard battery pack: 5 years



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