



## Red Alert (GSM/GPRS) Remote Monitoring, Control and Alarm

The Red Alert option contains a “GSM Alarm Unit” or a “GPRS Alarm Unit” and the necessary commands in the MR firmware to send out text messages (SMS) if certain conditions are met.

The Alarm Unit (GSM or GPRS) allows you to communicate remotely with the instrument at any time. Trigger or alarm levels can be changed, test measurements can be carried out and you can retrieve the data without visiting the site.

The MR2002 with the Red Alert option forms a perfect monitoring system with automatic alerting in case of threshold exceedance. The MR2002 stores up to 7 phone numbers as recipients for text messages (SMS). As soon as the pre-programmed thresholds are exceeded or in case of a system error (e.g. low battery), the MR2002 sends out the corresponding messages. If more information is needed, the time history files can be downloaded.

The WinCom software works in exactly the same way as in the direct communication.

To automate repetitive task like download an Events List or download all events from many MR2002 using the “Start-up Script” option for WinCom is a good choice.

- Remote Communication
- Automatic Alerting
- Automatic Data Retrieval
- Efficient management of field instrument
- The set-up is very simple

## Characteristics

	<b>GSM Alarm Unit</b>	<b>GPRS/EDGE Alarm Unit</b>
<b>Performance</b>		
GSM Interface	Dual-Band (900/1800) CSD (14.4 kbit/s) ISDN V.110 or analog	Quad-Band GSM (850/900/1800/1900) GPRS (57 kbit/s) EDGE (236 kbit/s)
SIM-card	With CSD data transfer capability	With GPRS data transfer capability
Alerting	Via SMS (text message)	Via SMS (text message)
Remote access	Via modem ISDN or analog	Via an IP address or Dyn-DNS link
Network / Security		OpenVPN, IPsec (VPN) Dyn-DNS client Firewall
Configuration	Using AT commands	Through WEB Browser Through SMS
<b>Interfaces &amp; connectors</b>		
LED	Operating status	Power GSM Signal Strength Status of the I/O
Serial link	RS-232 (LEMO connector)	RS-232 (LEMO connector)
Antenna	FME (female) or N (male)	SMA female / 50 Ohm
Digital I/O	None	2 digital outputs 2 digital inputs
Ethernet	None	RJ45
<b>Power supply</b>		
Input Voltage	8 - 30 V Supplied by MR2002 recorder	9 - 28 V Supplied by MR2002 recorder
Power consumption	~25mA @ 12V (standby) ~80mA @ 12V (during transmission)	~160mA @ 12V (GPRS down) ~190mA @ 12V (GPRS up) ~290mA @ 12V (during transmission)
<b>Dimensions</b>		
Housing (without the antenna)	140x122x130mm (WxLxH)	250x120x100mm (WxLxH)
Weight	1.2 kg	1.7 kg
Protection degree	IP 65 (splash-proof)	IP 65 (splash-proof)

## Comparison chart

	<b>GSM Alarm Unit</b>	<b>GPRS/EDGE Alarm Unit</b>
Remote control of the MR2002	✓	✓
MR2002 can send out SMS	✓	✓
Permanent connection with the MR2002		✓
Multiple connection from the same PC <sup>note1</sup>		✓

Note1: with the GSM Alarm Unit the same PC can communicate with many MR2002, but only one at a time

## Ordering Information

	<b>Product Codes</b>
GSM Alarm Unit Kit	93.11.1050
GPRS/EDGE Alarm Unit Kit	93.11.1150

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