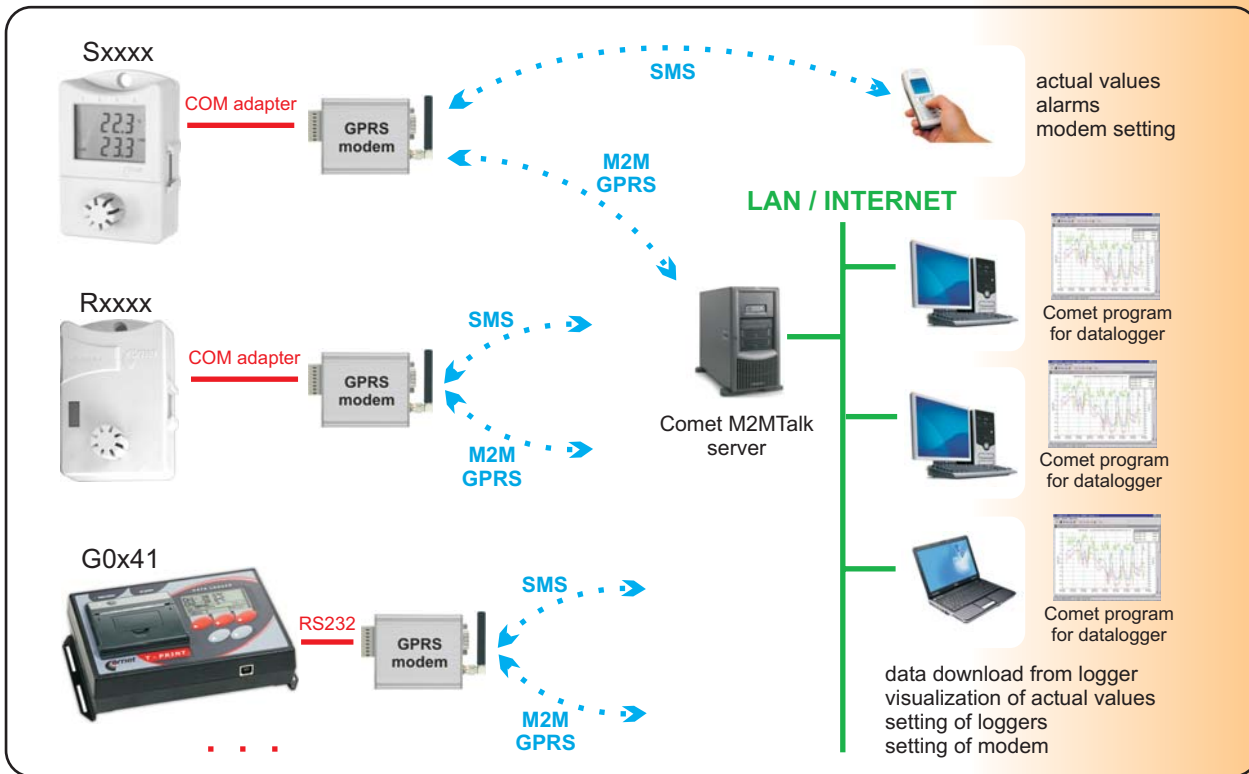


WIRELESS COMMUNICATION WITH LOGGERS VIA GSM



FEATURES:

1. Wireless communication with Sxxxx, Rxxxx loggers via GPRS

- * Remote data download from logger
- * Logger configuration (setting, erasing of data, etc.)
- * Reading of actual values (online display mode)
- * All actions available as via COM/USB adapter
- * Connection realised via M2M Talk server
- * Communication via M2M server can be disabled, if data download is not required = saving of cost (no need to pay GPRS data tariff)

2. SMS queries about actual values

- * Sending of SMS query to modem phone number returns actual values. After receiving of SMS query modem sends required info in SMS.
- * It is possible to limit phone numbers SMS commands are sent from. Same it is also for configuration-service SMS commands.

3. Alarm SMS messages - modem sends to phone numbers alarm SMS messages:

- * If upper/lower limit of measured value is exceeded
- * Information on filling of the logger memory (90% and 100%)
- * Information on low logger battery or end of estimated battery approaches.
- * Information on logger on/off.
- * Error messages (communication error with logger, internal clock error, measured value error)










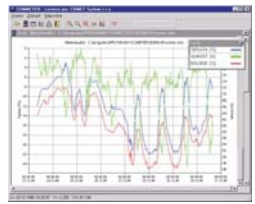
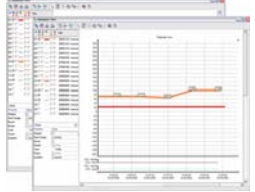
4. Setting of modem

- a) Local - service setting via RS232 link from user program:
 - * Setting of configuration
 - * Download and erasing of diagnostic log file from modem
 - * Upload of new firmware to modem
- b) Remote - via M2MTalk server from user program
 - * Setting of configuration
 - * Download and erasing of diagnostic log file from modem
 - * Log out from M2MTalk server
 - * Restart of modem
- c) By means of SMS message
 - * Update of application in modem
 - * Detection of description and firmware version in GPRS modem
 - * Detection of GSM status
 - * Enable/disable of alarm evaluation
 - * Setting of GPRS parameters for connection
 - * Setting of parameters of M2MTalk server
 - * Log in and log out with M2MTalk server
 - * Halting or restart of application in modem

Every Sxxxx or Rxxxx datalogger in monitoring system is connected via COM adapter to "its" GSM modem LPO40. It is necessary to order several items from accessories. Minimum set of one logger connected to GSM contains: Sxxxx or Rxxxx logger, LPO02 COM adapter for logger connection to modem, GSM modem LPO40, GSM antenna, Ac/dc adapter 230V-50Hz/24Vdc/24W, QMS2901 cable for modem setting, SWR004 Optional PC program for data loggers or SWR007 Software package Database Logger Program for work with data from Comet data loggers, fee for using M2M server - see further.

Sxxxx Rxxxx Gxxxx

Optional accessories for communication with loggers:

	LP040	GSM/GPRS modem with SIM card holder - without accessories. Enables full communication with data logger via GPRS - data download, logger configuration .. Data logger can be controlled by means of SMS messages from mobile phone. Actual values and alarm status can be received as SMS.
	MP001/1	GSM antenna 3dB for modem, right angled.
	A1940	Power adapter 230V-50Hz/24Vdc/24W for modem.
	QMS2901	Cable for modem setting via serial RS232 link by means of optional PC program for data loggers SWR001. Needed only for local setting of modem during configuration of the operation.
	MP006	RS232/USB converter to QMS2901 cable for modem setting via USB. Needed only for local setting of modem during configuration of the operation.
	MD036	Self adhesive Dual Lock for modem easy installation.
	MP036	Modem wall holder.
	MP037	Modem DIN rail 35mm holder.
	LP002	COM adapter for logger connection to modem via serial link RS232.
	SWR004	Optional program for data loggers enables <ul style="list-style-type: none"> * local GSM modem setting via serial link RS232 by means of QMS2901 cable * numerical list of recorded values * comfortable work with graphs * export to dbf or txt format
	SWR007	Program package Database Logger Program. Program enables i.a.: <ul style="list-style-type: none"> - To set locally the GSM modem via RS232 link by means of the QMS2901 cable. - To view selected channels from any Comet logger together with selected channels of other Comet loggers. - Measurement from different devices is possible to combine in one table or graph. - To choose any time interval for analysis. - Print, export to PDF - table and graph.
	M2M server	Monthly fee for using M2M server - applied for each data logger with modem.

Sxxxx Rxxxx Gxxxx