



Chatter™

DATA LOGGER WITH INTEGRATED MODEM

6.10

General

Chatter™ Data Logger is designed for monitoring drinking water and waste water installations. Chatter™ Data Logger has a built-in multi-channel data logger, a GSM / GPRS modem and a battery ensuring up to 5 - 10 years of continuous operation.

The embedded software activates the required digital and analog inputs, and time-stamped data are stored at selectable intervals. Three different types of call can be selected; Data for standard SQL-database, SCADA system or as e-mail or SMS, and the calls can be scheduled to user controlled intervals, transferred using the GSM/GPRS net.

Installation and configuration of data logging are very simple with the MJK user software. Data from the SQL database can be transferred to larger SCADA systems using Chatter CNS plug-in.

Chatter™ Data Logger is available in two different versions: one for pipe mounting and one for wall mount.

Features

- Transmits data and alarms to standard SQL database using GSM/GPRS network
- Transmits data and alarms to SCADA systems using Modbus® RTU protocol over GSM/GPRS network
- Data transmission by e-mail to up to four e-mail addresses:
 - Data directly in the mail body
 - Data as attached CSV file in the mail.
 - Data file can be displayed by Chatter Link PC software
- Transmits live data and alarms as SMS message to up to four recipients
- Alarms can be sent alone or along with other communication as SMS.

Application

- Measuring levels, pressure, temperature, flow and more parameters in wells, boreholes, sewers and rivers or lakes
- Ground water level monitoring. Chatter™ Data Logger is especially useful in places without main power supply, as it is developed for having a very long lifespan on the built-in battery.
- Storm flow logging, activated by level-trigger or analog limit. Logging of amount, duration and time of storm flows.



DATASHEET

EN 6.10 CHATTER DATASHEET 1704

Chatter™ Data Logger

Four-In-One

Chatter™ Data Logger measures and stores data in the data logger and can transmit in 4 different modes:



Sends data to a SQL database, where measurements and alarms can be transferred to e.g. a Scada system



- Data transmission by e-mail to up to four different e-mail addresses.
- Data directly in the mail body.
- Data as attached CSV file in the mail. Data file can be displayed by Chatter Link PC software



- Both live data and alarms can be sent as SMS message.
- Sends SMS messages to up to four different recipients.
- Alarms can be sent as SMS message alone or together with other communication.



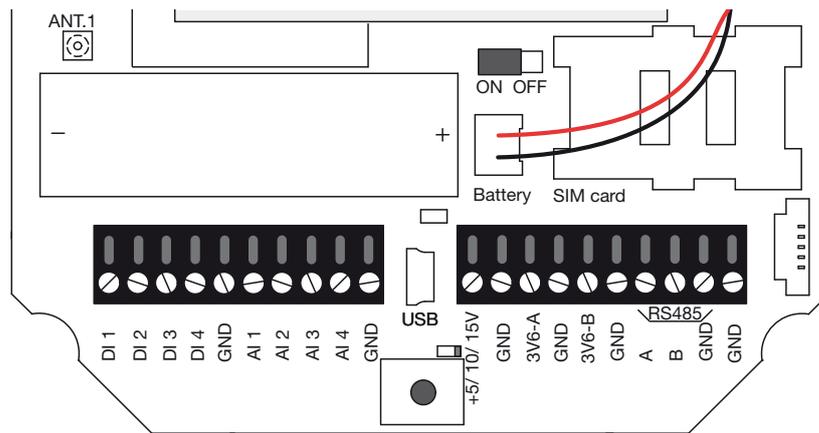
Chatter™ Data Logger can send alarms and status of the measurements as SMS messages

Specifications

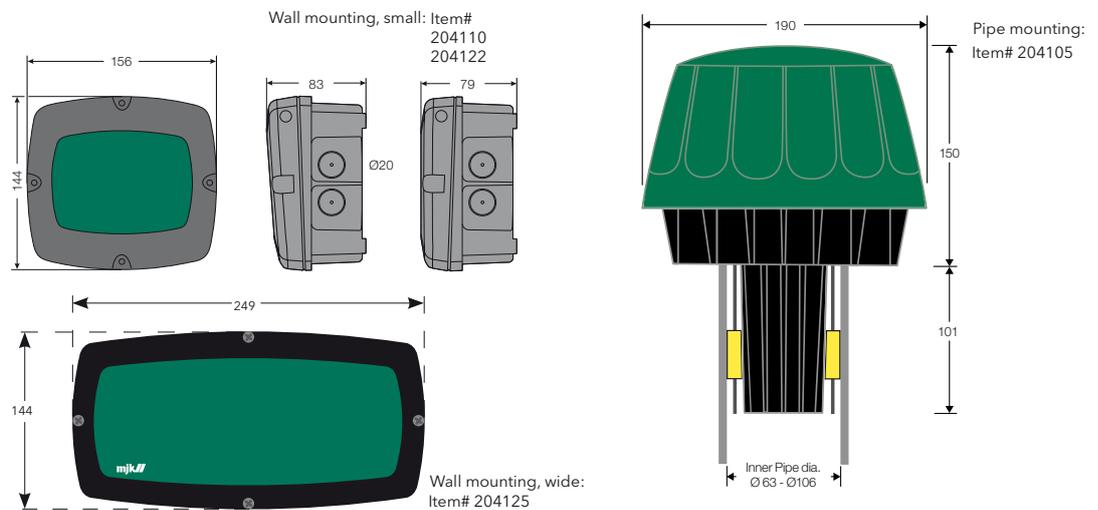
Chatter™ Data Logger	
Power supply	Built-in 3,6 VDC, 19 Ah lithium battery
Performance	Better than 5 years@1 measurement/day and 1 call/day
Clock	Real-time clock, 24-hour clock
Memory storage	DB Version: > 100.000 measured values (date- and time-stamped) RTU and E-mail version: 90.000 measured values (date- and timestamped)
Log intervals	1, 2, 5 10 min, 1, 2, 4, 8, 12 or 24 hours
Event Log intervals	1, 2, 5 10 min, 1, 2, 4, 8, 12 or 24 hours
Call intervals	1, 2, 4, 8, 12 or 24 hours, and 10, 25, 50 100, 250, 500 or 1000 Logs
Communication	Build-in GSM/GPRS quad-band 850/900/1800/1900 MHz modem w/ on-board SIM- card holder
External Communication Protocol	MJK Proprietary protokol for DB Version, Modbus® RTU-mode, Modbus® TCP or COMLI® for RTU version
Interface	1 pcs. RS485 for Serial Data input 1 pcs. USB 1,1 type mini B, female 1 pcs. MMCX, female, for antenna
Antenna	Pipe: Built-in GSM/GPRS Antenna - Dual band, Amplification 0 dB, Frequency 900/1800 MHz
Mounting	In Pipe with inner diameter Ø 63 - Ø106 mm or on a wall
Enclosure	IP 67
Materials	Pipe: PC-ASA (top) and aluminium (base) Wall: Glas-reinforced PC (polycarbonate)
Temperature range	- 20 ... 60 °C
Air humidity	Max. 95% relative
Weight	Pipe mounting: 1,8 kg Wall mounting: 0,7 kg
CE approvals	EN61000-6-1:2007, EN61000-6-3:2007
Input and Output 4AI/4DI/1RS485	
Digital inputs	4 pcs. 2 - 5 VDC (min. time for state 1 second)
Analog inputs	4 pcs. 0 - 2,5 VDC
Serial Data input	1 pcs. RS-485 Modbus® com port for max. 4 units Modbus® RTU-mode, 9600 baud, 2-wire RS-485, Master mode, Function 3, Read only
Power supply for I/O	1 pcs. 3,6 VDC 1 pcs. 3,6 VDC ON/OFF-controlled 1 pcs. 5 VDC ON/OFF-controlled, option +10 or +15 VDC.
Accuracy	AI: Better than ± 1% FS
Resolution	AI: 10 bit, input impedance: min. 10 K ohm
Database Server	
Server requirements	Microsoft Server 2008 R2, IIS v.7 (Internet Information Services) Microsoft SQL Database 2008 R2 Express Edition
Network requirements.	MPLS/APN (Multi-Protocol Label Switching) or internet access

Chatter™ Data Logger

Electrical Connections



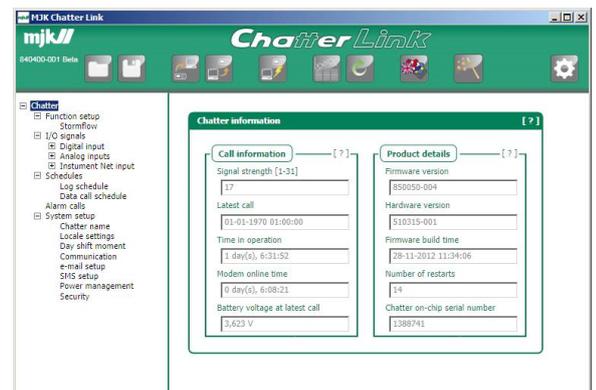
Dimensions



Accessories

Chatter Link™

Designed for for setup, configuration and viewing online data through USB connection.



Expert Digital Hydrostatic Level transmitters.

- Hydrostatic Piezo-resistive relative measuring principle.
- RS485 digital output, Modbus, level and Temperature signals.
- Measuring range: 0–3 m ...300 m (0-10ft ..1000 ft)
- Supply voltage: 3,5 - 12V DC
- Accuracy, better than $\pm 0.25\%$ FS @ +10 to 30 °C



Chatter™ Data Logger

Order Numbers

Chatter™ Data Logger	
204105 ¹	Chatter™ Data Logger GSM/GPRS for tube mounting
204110 ²	Chatter™ Data Logger GSM/GPRS for wall mounting
204122 ²	Chatter™ Data Logger GSM/GPRS for wall mounting, 10-30VDC (3,7 V Li-Ion)
204125 ³	Chatter™ Data Logger GSM/GPRS for wall mounting, 230VAC/12VDC

Accessories	
840134	Chatter™ System Software DVD
840400	Chatter Link™
840128	Chatter™ Data Logger Notification System. Must run on the same server as Chatter DB System
840135	Chatter™ Data Logger Setup Tool
521751	Mounting wedge kit for tube Ø63-92mm, 3 x 3 pcs. Metal, wedge sizes: 1, 2, 3 and 4
521752	Mounting wedge kit for tube Ø84-106mm, 3 x 3 pcs. Metal, wedge sizes: 4, 5 and 6
521755	Wedge screws, kit with 3 pcs.
521757	Padlock bracket, Ø 8mm
521760	Gasket for Chatter™ Data Logger base/tube
521761	Gasket for Chatter™ Data Logger top/base
521762	Gasket for Chatter™ Data Logger cover plate
550246	Battery 3.6 V, 19 Ah Lithium
550246-1	Battery 3.6 V, 35 Ah Lithium
550246-2	Battery 3.6 V, 65 Ah Lithium
569108	Screw, self-tapping, KB50x14
569123	Screw, self-tapping, KB35x7
571055	Rubber band, 60mm, folded
691095	USB Cable, Mini /USB
691098	USB plug, mini to mini for panel mounting, IP67
Antennas	See data sheet: EN 6.26 GSM-GPRS Antennas Datasheet
Expert Hydrostatic Level Transmitters	See data sheet: EN 2.75 Expert Datasheet

1) Battery 550246 is used for this device

2) Battery 550246-1 can be used alternatively

3) Battery 550246-1 or 550246-2 can be used alternatively



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All information in this datasheet can be subject to changes without prior notice, including specifications.

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