



GSM Communication Unit 3743

is a GSM modem for remote programming and data retrieval from Datalogger 3634/3660.

GSM Communication Unit 3743 enables the GSM system as an optional data retrieval system from Aanderaa Monitoring Stations.

The GSM system is ideal when VHF/UHF data transmission is not possible due to unattainable line of sight between the radio transmitter and receiver.

Together with the Display Program 3710M w/calling, this unit will make the design of a network of stations easy and straightforward.

The Communication Unit consists of the Wavecom “dual band” W2MOD GSM modem and an RS-232C interface, placed inside a water resistant IP 67, polycarbonate box. The Interface will supply the modem with power and correct signal levels.

Datalogger setup

In order to get the GSM modem to operate together with the Datalogger 3634/3660, the “Modem Init String” has to be edited in the Datalogger. To edit the “Modem Init String” proceed as follows:

1. Connect the Programming Cable 3204 between the receptacle marked “Com.Port” on the Datalogger and a computer’s serial port

2. Use communication software like HyperTerminal to communicate with the Datalogger. See the Datalogger Manual TD 216 for set up of HyperTerminal.

3. Enter “setup” at the “command>” prompt and then enter your password (default password is 3634 or 3660). A menu will then appear on the screen.

Select menu item number 31 “Modem Init String” and edit the Modem Init List. When finished the list should be as shown below.

Setup Modem Init List

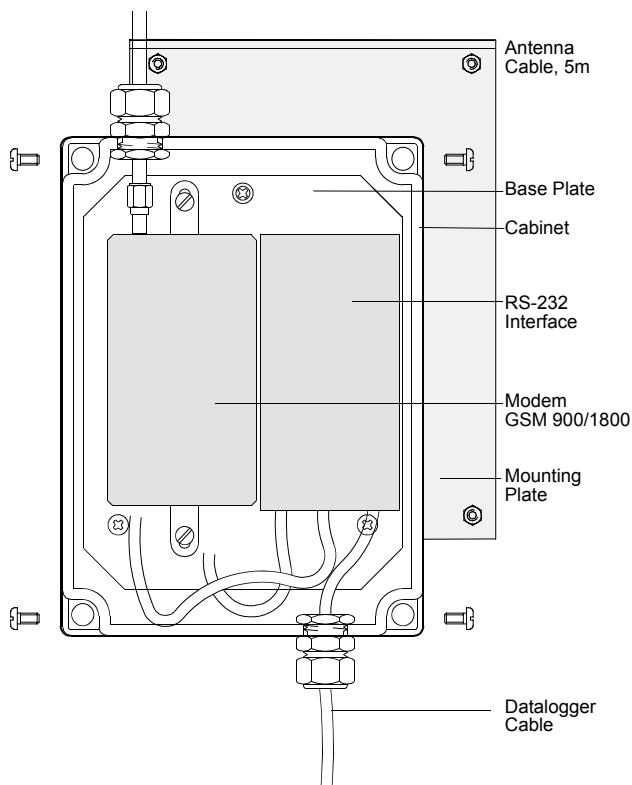
| | | |
|------------------|-----------|---|
| 00 [AT | 005 [AT&W |] |
| 01 [AT&DO | 006 [|] |
| 02 [MVSET | 007 [|] |
| 03 [AT+CPIN=XXXX | 008 [|] |
| 04 [AT+IFC=0,0 | 009 [|] |

In init command number 3, in the Modem Init List, **replace** xxxx with your own **PIN** number.

4. Select menu item 32 “Set baud rate” and set new baud rate to 9600.

Specifications

D340 April 2009



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|-------------------------------|---|
| GSM Module: | Wavecom WMOD2B |
| GSM standards: | GSM 900 Class 4 (2W) GSM 1800/1900 Class 1 (1W). GSM 1900 delivered on request. |
| SIM card reader: | 3V mini SIM cards enabled for data transmission. Note SIM card should only be inserted and removed when the power is disconnected. |
| Input voltage: | 5 - 32 volts DC. |
| Current consumption: | GSM 900: < 10mA idle. Communicating 200mA average. GSM 1800/1900: < 4.8mA idle. Communicating 130mA average, @ 12V DC. |
| Interface: | RS-232C, 9600 baud, 8 databits, no parity, 1 stop bit. |
| Operating temperature: | -20 to +55°C |
| Physical Connection: | 6 pin waterproof plug 2828 |
| Weight: | 1.2kg |
| Material and Finish: | 130 x 180 x 60mm IP67 polycarbonate box |
| Warranty: | Two years against faulty materials and workmanship. |
| Accessories included: | Mounting bracket 2808 with isolating foot. 5 meter RG58 antenna cable. Dual Band 890-960MHz and 1710 - 1880MHz omnidirectional antenna. |
| Accessories optional: | High gain directional or omnidirectional antenna. |

GSM Modem setup

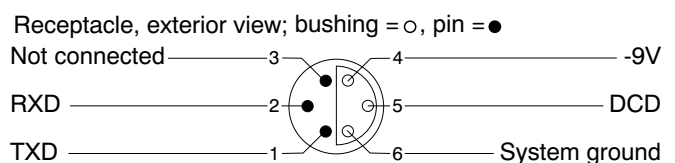
The GSM modem needs a SIM card prepared for data communication to operate. The SIM card is NOT delivered together with the GSM modem. Contact your network supplier to obtain a SIM card for your modem and install it as instructed below:

1. Remove the cover from the cabinet.
2. In order to extract the SIM holder, press the SIM holder ejector, placed next to the antenna connector on the modem, with a pen or equivalent to avoid damage to the holder.
3. Insert your SIM card into the SIM holder and push the holder back into the modem.
4. Tighten the cabinet cover.

Interconnecting the Datalogger and the GSM Modem

1. Make sure the Datalogger is turned OFF.
2. Connect the antenna cable to the antenna and fasten the antenna to the isolating foot on the mounting bracket.
3. Connect the GSM modem to the connector on the Datalogger marked COM PORT.
4. Turn the Datalogger ON.

PIN CONFIGURATION



NOTE!

Because of Aanderaa Instruments positive "system ground" and the Wavecom modem and the antennas negative ground, a special mounting bracket that isolates the antenna ground from the "system ground" must be used. This bracket is included in the GSM Communication Unit 3743. If this bracket is not used the GSM modem can be damaged.

Post Box 34 SLÅTTHAUG
5851 BERGEN, NORWAY
TEL. +47 55 60 48 00
FAX. +47 55 60 48 01

<http://www.aadi.no>
e-mail: info@aadi.no



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