



GPRS COMMUNICATION UNIT 4043

GPRS Communication Unit is a device for datalogger 3634/3660 and Deck unit 3127, enabling real-time data over the GSM Network.

General Packet Radio Service, GPRS, is an IP based platform designed to offer access to data networks. In GPRS communication, radio resources are used only when there is data information to transmit, even though the user remains logical connected all the time (always online).

GPRS communication system enables a network of meteorological and/or hydrological stations to be directly connected to your private corporate network. Data are routed using secured channels (VPN connection): from the field stations to your private network via your mobile network supplier. Contact your network supplier for details.

Cost effective solution

GPRS communication gives you a cost-effective real-time monitoring system. Using GPRS you pay for the data volume transmitted, hence for applications involving rather small amounts of information (like AADI meteorological and hydrological stations) the cost using GPRS can be significantly less than for data circuit switched alternatives (like e.g. GSM Data).

Equipment

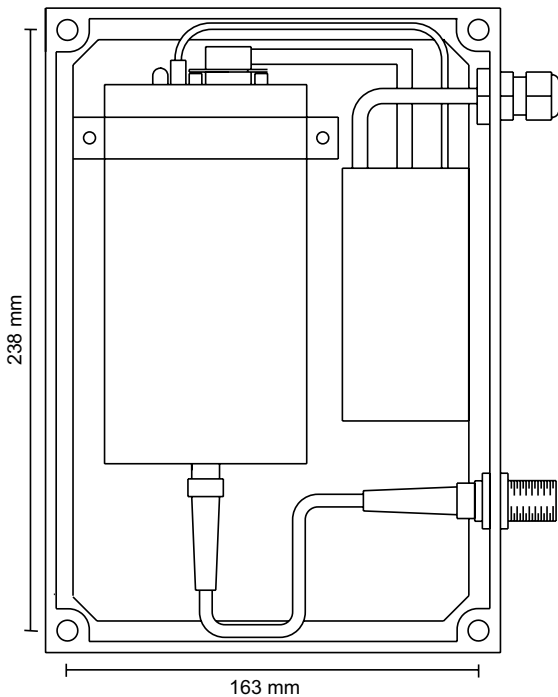
A computer with Display Program 3710 can be set up to receive and display data from stations anywhere in the world through a single Ethernet card. Software running on the host computer will make virtual com ports and link each com port to the field stations IP address. No external equipment is needed. The system will act in the same way as if there were cables connected from the remote stations directly to the host end computer.

The GPRS Communication Unit consists of the Harvest Serial Port Extender (SPE) and an RS-232C Interface placed inside a water resistant IP67 poly carbonate cabinet. The SPE is containing a Motorola G18 GPRS module (900/1800/1900MHz) for use in Europe, Asia-Pacific (except Japan), parts of USA, Canada and South America.

The GPRS modem needs a SIM card prepared for GPRS communication to operate. The SIM card is NOT delivered together with the GPRS modem. Contact your mobile network supplier to obtain a SIM card for your application.

Specifications

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SIM CARD INSTALLATION

The GPRS modem requires a SIM card prepared for GPRS communication to operate. In order to log on automatically to the GPRS net, the automatic PIN code request must be disabled. The SIM card is NOT delivered together with the GPRS 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. Unscrew the C clamp fastening the GPRS modem to the base plate.
3. Remove the four screws on the base of the modem box and lift off the lid.
4. Insert the SIM card into a slot on the underside of the modem module. The contacts must face up. An outline on the circuit board overlay will indicate the orientation of the bevelled corner on the SIM card. It will be necessary to lift the end of the circuit board out of the box slightly in order to get unobstructed access to the SIM slot.

CONNECTION TO DATALOGGER 3634/3660

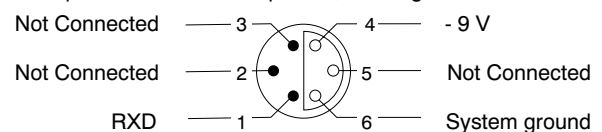
1. Make sure the Datalogger is set to 9600 baud and SIMPLE PRINTOUT.
2. Connect the GPRS modem to the connector on the Datalogger marked LAST READING.

NOTE! Aanderaa Instruments use positive system ground while the GPRS modem and antennas have negative ground. A special mounting bracket that isolates the antenna ground from the system ground must therefore be applied. This bracket is included in the GPRS Communication Unit 4043. If the bracket is not used the GPRS modem can be damaged.

GPRS Module:	Motorola G18. Tri-band GPRS engine (900/1800/1900MHz) for use in Europe, Asia-Pacific (except Japan), parts of USA, Canada and South America.
SIM Card:	3V mini SIM cards enabled for GPRS. <i>Note! The SIM card should only be removed when power is disconnected</i>
Supply Voltage:	6-36V DC
Current Consumption:	@ 12V, Idle: 35mA, Transmitting: 200mA average Peak current 600mA.
Operating Temperature:	-20 to +60°C
Physical Connection:	6-pin waterproof plug 2828
Weight:	2.5kg
Dimensions:	255 x 180 x 60mm IP67 polycarbonate cabinet
Warranty:	Two years against faulty materials and workmanship
Accessories included:	
4043 standard version:	Mounting bracket 2808 with isolating foot.
4043A version:	Mounting foot for mast section.
Both versions:	5m RG58 antenna cable, dual-band omni-directional antenna.
Accessories optional:	High gain omni-directional or directional antenna.

PIN CONFIGURATION

Receptacle, exterior view; pin = ●; bushing = ○



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