

# Isco 2103G GSM/GPRS Cellular Phone Modem

This modem module allows you to remotely download data from another Isco 2100 series flow module. It virtually eliminates the need for recurring site visits, time-consuming (and potentially dangerous) confined space entry, as well as costly installation of land lines.

The 2103G is compatible with user-subscribed GSM digital cell phone service (such as AT&T and T-Mobile). GSM subscription parameters are contained on a SIM card that you install in the modem. Service parameters – or provider – may be changed by simply replacing the SIM card.



*The SIM card is accessed via this waterproof twist-off cap located on the module's underside.*

## ***Pushed data capability***

The 2103G can automatically send data via the Internet to a designated server running Isco Flowlink<sup>®</sup> Pro software, using economical GPRS packet-switched data transmission. The user-specified primary data transmission interval (from 5 minutes to 24 hours) can automatically change to a secondary interval when specific conditions occur at the monitoring site.

An Oracle<sup>®</sup> or Microsoft<sup>®</sup> SQL database is required to use this feature. Contact the factory for additional information.



## ***Standard Features***

- ◆ Automatic dial-out alarm messaging to pagers or cell phones – with CSD service on a SIM card
- ◆ Communication coverage for any area with GSM cellular service
- ◆ Easy setup and change of service provider by simply installing a SIM card
- ◆ Resistance to lightning damage
- ◆ IP68 enclosure rating (NEMA 4X, 6P)
- ◆ Compatibility with Isco Flowlink<sup>®</sup> Data Management Software, allowing sophisticated analysis, editing, graphing, reporting, and archiving.
- ◆ To extend battery life, dial-in users can program the module to “power up” only for scheduled periods during which data may be accessed.
- ◆ When used in pushed data mode, the device automatically powers down once transmission is complete (until next transmission begins).

The 2103G stacks together with up to three other Isco 2100 Series flow modules of your choice, giving you a compact, integrated system for open channel flow data collection and management.

## Specifications

Isco 2103G GSM/GPRS Modem	
Size (H x W x D):	2.9 x 10.5 x 7.5 in. (7.4 x 26.7 x 19 cm)
Weight:	2.0 lbs. (0.9 kg)
Enclosure:	NEMA 4X, 6P (IP68)
Material:	High-impact polystyrene
Power:	Provided by Isco 2191 Battery Module
Operating temperature:	-4° to 140°F (-20° to 60°C)
Storage temperature:	-40° to 140°F (-40° to 60°C)
Setup and data retrieval:	Via PC or compatible computer with Isco Flowlink Software

2191 Battery Module	
Size (H x W x D):	6.0 x 9.6 x 7.6 in (15 x 24 x 19 cm)
Weight: (w/o batteries)	3.2 lbs (1.45 kg)
Enclosure: (self-certified)	NEMA 4X, 6P (IP 68)
Material:	High-impact polystyrene
Batteries:	Two 6V alkaline or lead-acid lantern Alkaline 25 Ahr capacity; Lead-acid 5 Ahr capacity

## Ordering Information

The 2103G modem is sold without GSM cellular service. Service is activated by installing a user-provided SIM card in the modem module.

Description	Part Number
2103G GSM Digital Cell Phone package with In-street antenna	68-2000-083
2103G GSM Digital Cell Phone package with magnetic mount antenna	68-2000-084
2103G GSM Digital Cell Phone package with manhole cover antenna	68-2000-085
In-street antenna Includes 10-foot (3-meter) cable	60-2004-564
Magnetic mount antenna Includes 10-foot (3-meter) cable	60-2004-565
Manhole cover antenna Includes 10-foot (3-meter) cable	60-5314-820
Isco Flowlink Software	68-2540-200
Isco Flowlink Pro Software	68-2540-270

Note: Isco cannot be responsible for availability of cellular service at the customer's installation site. The customer is responsible for confirming that the selected GSM service provides coverage where the modem will be deployed.



Manhole cover antenna, attaches through a 3/4 inch hole in manhole cover. It includes a mounting tool and hardware.



Magnetic-mount antenna, for elevated placement to extend range and avoid signal obstruction, e.g., where modem is inside a steel enclosure or steel-framed building.



Potted antenna in PVC housing, designed to be buried in street for manhole



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