# Teledyne Isco 2103Gi GSM Cellular Modem Module

This cellular modem module is designed to push Isco 2100 Series flow meter data to a remote Flowlink® database. Data can also be downloaded from the server using an internet connection. The 2103Gi modem module uses Serial Over Internet Protocol (SOIP), so a landline modem is not required.

This ability virtually eliminates the need for routine site visits, time-consuming (and potentially dangerous) confined space entry, as well as costly installation of land lines.

GSM subscription parameters are contained on a SIM card that you install in the modem. These parameters can be changed by simply replacing the SIM card.

*The SIM card is accessed via this waterproof cap located on the bottom of the module.*

### Long battery life

While preset dial-out conditions will automatically power up the internal modem, you can significantly extend battery life by programming the module with specific conditions to power up the modem for dial-in communication.

### Standard Features

- Automatic alarm messaging to pagers or cell phones via SMS to server, with service on a SIM card
- Communication coverage for any area with cellular service (GSM/GPRS/EDGE)
- Easy setup and service parameter changes by simply installing a SIM card
- Resistance to lightning damage
- IP68 Enclosure rating (NEMA 4X, 6P)
- Compatibility with Isco Flowlink data management software, enabling sophisticated analysis, editing, graphing, reporting, and archiving.
- In pushed data mode, modem automatically powers down between transmissions.

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

## Specifications

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|---|---|---|
| **Dimensions (H x W x D):** | 2.9 x 10.5 x 7.5 in. | 7.4 x 26.7 x 19.1 cm |
| **Weight:** | 2 lbs | 0.9 Kg |
| **Material:** | High-impact molded polystyrene | |
| **Enclosure:** | NEMA 4X, 6P, IP68 | |
| **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) | |
| **Serial Port Communication Speeds (not modem):** | Up to 38,400 bps | |
| **Cellular Communication:** | Serial Over IP (SOIP): GSM/GPRS | |

*Teledyne Isco is continually improving its products and reserves the right to change specifications without notice.*

## Ordering Information

Teledyne Isco will consult with the customer at the time of order to install the phone number per customer's service contract, and make test calls in and out, normally providing plug-and-play startup when the modem is delivered.

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| **2103Gi module w/ magnetic-mount antenna** | 68-2000-087 |
| **2103Gi module w/ in-street antenna** | 68-2000-086 |
| **2103Gi module w/ manhole cover antenna** | 68-2000-088 |
| **Magnetic-mount antenna** | 60-2004-551 |
| **In-Street Antenna** | 60-2004-564 |
| **Manhole Lid Antenna** | 60-5314-820 |
| **Flowlink 5.1 Software** | 68-2540-200 |
| **Flowlink Pro Software** | 68-2540-276 |

*Note: The customer is responsible for confirming that local cellular service provides coverage where the module will be deployed.*

**Magnetic-mount antenna:**
*For elevated placement to extend range & avoid signal obstruction, e.g., where module is in a steel enclosure.*

**In-street antenna:**
*Potted in PVC housing. Designed to be buried in street for manhole monitoring.*

**Manhole cover antenna:**
*Attaches through a 3/4 inch hole to manhole cover. Includes installation tool and hardware.*

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