

**azbil**

# HGC

Heat Value Gas Chromatograph

**Compact, Smart & Affordable**

- Easy field mounting and start-up
- Packaged application: Natural gas analysis for 11 components ISO 6974
- Calculation of heat value (superior and inferior) ISO 6976 or GPA2172.
- Easy to maintain
- Plug-and-play communication

## Features

### 1. Heat value Gas Chromatograph

The model HGC303 is the world smallest gas chromatograph, which is capable of analyzing 11 different components of natural gas and digitally output the derived parameters, such as calorific value, Wobbe-index, or density.

Model No.	Description
HGC303 - 1E	ISSeP/CENELEC Flameproof
HGC303 - 1F	FM Explosionproof / Flameproof



Model HGC303

### 2. Heat Value Gas Chromatograph Fieldbus Adaptor

Heat Value Gas Chromatograph Fieldbus Adaptor (Model HFA) is an communication interface module used to connect the Model HGM (Model HGC monitor) a Windows-based PC application, to Azbil Corporation's state of art analyzer, Model HGC that operates on a FOUNDATION™ fieldbus H1 network. Users can easily configure, monitor and maintain the Model HGC all from a PC by simply connecting the Model HFA to the Fieldbus network.

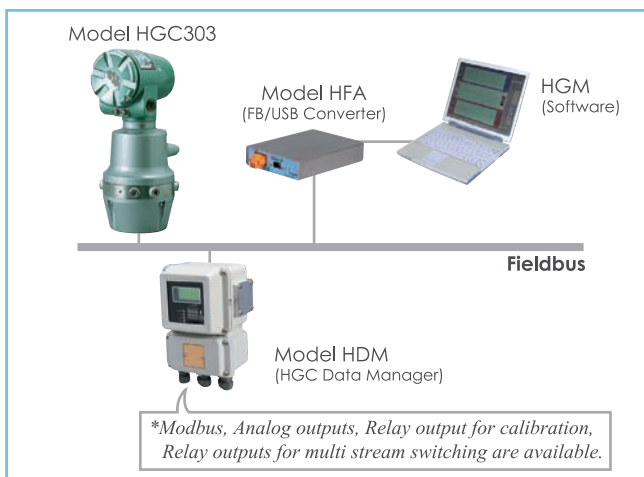
Model No.	Description
HFA100	Fieldbus Adaptor

### 3. Heat Value Gas Chromatograph Data Manager

Heat Value Gas Chromatograph Data Manager (Model HDM) is a powerful component, which adds valuable data management function to the analyzer. For the fiscal measurements system purpose, 20 PV's from Model HGC303 will be converted to the floats data type of Modbus, and transferred to Modbus host as request. Other functions are: Multi serial ports, Data storage function, Multi stream switching, Field mounting with local display, and Analog output.

Model No.	Description
HDM303 - 22SC	with RS232 / RS232 / Status output / Calibration output
HDM303 - 24SC	with RS232 / RS485 / Status output / Calibration output
HDM303 - 44SC	with RS485 / RS485 / Status output / Calibration output
HDM303 - 2DSC	with RS232 / 2-Stream / Status output / Calibration output
HDM303 - 2DDD	with RS232 / 4-Stream output
HDM303 - 4DSC	with RS485 / 2-Stream / Status output / Calibration output
HDM303 - 4DDD	with RS485 / 4-Stream output
HDM303 - 2ASC	with RS232 / 2-Analog / Status output/Calibration output
HDM303 - 4ASC	with RS485 / 2-Analog / Status output / Calibration output
HDM303 - AASC	with 3-Analog / Status output / Calibration output

## Basic system design



A single unit of model HDM or a combination of model HDM enables a use of Model HGC303 system in single or multi stream pipeline metering application \*1 and process application \*2 such as turbine control for power plant and heat value monitoring for industrial automation.

\*1: Modbus communication to a flow computer or SCADA system with or without multi stream switching relay outputs)

\*2: 4-20mA signal communication to a SCADA systems or existing control systems

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**Azbil Corporation**  
Advanced Automation Company

Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

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