

GAS Flow

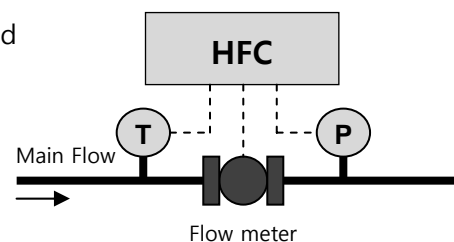
Flow Controller for Gas

HFC-6532G ►►►



Feature

- Total(mass & corrected volume) / rate(mass & corrected volume) /accumulated total(mass or corrected volume)
- Temperature and pressure
- 4-20mA and Pt 100 Ohms Temperature inputs
- Gross or net scaled pulse output



Over View

The HFC6532G series flow controllers are designed to measure mass or corrected volume for gas with temperature and pressure input. Most gases that have known properties and information are handled by using the Redlich-Kwang compensation equations. This series are covering ideal gas, general gas and natural gas.

Flow Controller for Gas

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General

Display

7-digit 14.1mm(0.56Inch) 7-segment LED

Display Update Rate 0.25-second
Decimal Points

Fully programmable for Rate and Total

Time Base

The Rate can be displayed in unit per second, Per minute, per hour or per day

Data Retention

Set up parameters and totals stored in non-volatile memory with 10 years retention.

Operation Temperature 0 to 55°C

Power AC 85-264V / DC 24V

Power Consumption 10VA

Transducer Supply

8V or 12V selectable, 50mA max

Flow Inputs

Frequency (Pulse) Input

Frequency Range 0 to 5kHz

Signal Type

Sine wave, open collector, reed switch, Proximity switch, voltage and current pulse

K-factor Range

0.0001 – 50000.0000(the pulse per units)

Analog Input

Inputs 4-20mA or 1-5V option

Input Impedance

Current 250 ohms

Voltage 10K ohms

Accuracy 0.05%

Span 0.0001 to 50000.0000

Zero 0.0000 to 50000.0000

Cut-off Point

A low flow rate cut-off can be programmed Below which flow is not registered. The cut-Off is programmed as a percentage of span Relationship Linear, square root or programmable open Channel For open channel flow meters; the power of The input relationship is programmable between 0 and 9.99.

Temperature Input

RTD Input

Type Platinum PT100(DIN)

Temperature Range

-100°C (-148°F) to 300°C (572°F)

(Refer to the ordering information for detail)

Accuracy 0.1°C

Linearity The non-linearity of the RTD is Internally compensated for.

Analog Input(4-20mA)

Input Impedance 250 ohms

Measurement Range

-273°C (-459.4°F) to 1200°C (2192°F)

Accuracy 0.05%

Pressure Input

Type Absolute or gauge

Span Absolute or gauge pressure is programmable at 4mA and 20mA.

Atmospheric

If a gauge pressure sensor is used, the atmospheric pressure is programmable

Pulse Output

Function

Open collector output with a pulse produced on each increment of the accumulated total (gross, net, mass or energy).

Pulse Width 10ms (negative going pulse)

Duty Cycle 49 pulses/sec. Max.

Output

Current sinking output transistor 50mA, 30vdc max.(Pulse output is suitable for driving remote counter or PLC's)

Relay Output

Function

High and low, high-high and high or low and low-low flow rate alarms based on the flow rate in energy gross volume, net volume, mass or energy

Max. Switching Power 2000VA, 240W

Max. Switching Voltage AC250V, DC30V

Max. Switching Current 8 Amps

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4-20mA Output

Function

Outputs flow rate in gross volume, net volume, mass or energy, The 4 and 20 mA points can be programmed to provide a fully scaled output.

Resolution 12-bit.

Accuracy Better than 0.025%

Maximum Load

500 ohms internally powered. 950 ohms from external 24V dc.

Isolation Output is isolated.

RS232/422/485

Type

Both RS232 and RS422/485 are provided.
(Note: When using the RS422/485, multi drop communication can be implemented with up to 32 instruments connected to a common bus.)

Function

Printer and computer protocols are fully programmable.

Printer

A print is initiated on each reset or at a programmable time interval.

Computer

An ASCII based protocol enable all display parameters to be read and the totals to be reset.

Baud Rate 1200 to 19200 BPS

Data Bit 8-bit

Parity Bit None

Data Logging

Output generated at intervals of once a minute to once every 24 hours. The total can be programmed to reset on each print or at 24:00 hours

Time

A real time clock is provided to give time and date on each output.

Error Output

Function

The Error output is out of range, no flow or communication fail indicated.

Output

An open collector transistor will sink 50mA max.

Enclosure

Basic Enclosure

Dimension

72mm(H) x 144mm(W) x 177mm(D)

Material Polycarbonate, Aluminum

Panel Cutting Size

67mm x 139mm (±0.2mm)

Weather Proof

Protection IP65 (Nema 4X)

Material Aluminum

Outside Dimension

248mm(H) x 162mm(W) x 87mm(D)

Explosion Proof

Outside Dimension

270mm(H) x 290mm(W) x 280mm(D)

Mounting hole Dimension

90mm (H) x 83mm (W) x M8 Bolt

Classification

Division 1, Class I Group-A, B, C, D

Class II Group-E, F & G

Class III

Zone 1 or 2, Exd II B T6

Standards and Approvals

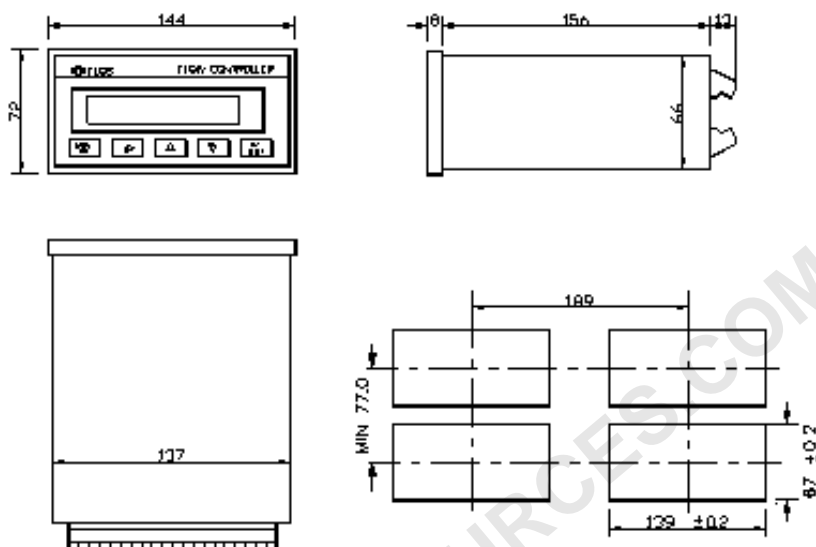
CE

Manufactured under ISO 9001

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Dimension



Ordering information

| MODEL | Order Code | | | Description |
|-------------|------------|--------|-------------|--|
| HFC6532G – | | | | Flow Controller with LCD Display (LED-Backlight) |
| Flow Sensor | A | | | D/P TRAN. 4~20Ma |
| Temperature | | A R | | 4-20mA RTD |
| Output | | | 0 1 2 | 4-20mA & Pulse 4-20mA & Pulse & Rs232 4-20mA & Pulse & RS485 |
| Power | | | A D | AC 85-264V(4-Wire) DC 24V (4-Wire) |



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