

# FLOW COMPUTER (FC5000)



## BASIC

Various protocols provided  
 Large Size Graphics Display  
 Remote control 5 Terminal  
 Back Light  
 Display Pressure & Temperature  
 86 - 260 V AC  
 PULSE&Analog Flow Input

## FUNCTION & FEATURES

Flow rate & Total of the Mass, Corrected volume or Energy  
 Actual Flow  
 The formula of DP Calculation value of DP Devices  
 Option(Ethernet, SD Card)

## Overview

- The FC5000 Gas & Steam FlowComputer는 가스 및 증기(응축수포함)에 대해 보정 방정식을 사용합니다.
- IdealGas는 온도와 압력을 보정하지만 압축성은 무시합니다.
- GeneralGases는 Redlich-Kwong 상태방정식을 사용하여 압축률을 계산합니다
- NaturalGas는 NX-19 방정식을 사용하여 수퍼압축률을 계산합니다.
- 포화 및 과열증기에 대한 스팀 방정식(응축수), 질량 및 에너지 유속은 증기의 비 및 엔탈피를 결정하기 위해 표준방정식을 사용하여 계산됩니다.

## CONFIGURATION



## Gorden rules Co.,Ltd

ADD : 30, Songdomirae-ro, Yeonsu-gu, Incheon, Republic of Korea

Tel : (032) 817-1240

Fax : (032) 817-1250

E-mail : hhm617@naver.com

Web : www.goldenrules.co.kr



# FLOW COMPUTER (FC5000)

## General

- Display : 73X52mm Graphic LC(Backlight)
- Transducer Supply : 8-24V dc field adjustable, 110mA max
- Power 100 ~ 240 V AC
- Operating Temperature: 0 ~ 55°C
- Dimension: 146mm(w) X 75mm(h)X151mm(d)
- Panel cutout: 139mm(w) X 66.5mm(h)
- Approvals : CE,KC

## Frequency Input

- Minimum : 0.25Hz on Rate, 0Hz on Total
- Maximum : 10KHz
- Input Circuits : Sine, logic and proximity switch inputs, Current Pulses, Open Collect Pulses
- Meter factor Range : 0.000001 ~ 1000
- Non-Linear Correction : Up to 10 correction points

## 4-20mA Input

- Input Types : Flow (2 ranges), pressure and temperature
- Input Impedance : 250 ohms
- Measurement Range :  
Pressure : 0 ~ 100 kgf/cm2 abs  
Temperature : ~273°C to 800°C  
Flow : 0.00001 ~ 999,999
- Accuracy : 0.1%
- Circuit : 250 ohm resistors connected to a common signal ground (current sinking)
- Non-Linear Correction :  
20 point curve can be applied to the flow input

## RTD Input

- Type : PT100 4Wire or 2,3Wire
- Range : -100°C to 300°C
- Accuracy : 0.1°C
- Linearity : The non-linearity of the RTD is internally compensated

## 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

- Corrected Pulse :
- Pulse Width : 10,100, 250, 500ms
- Duty Cycle : 50 HZ. max.
- Uncorrected Pulse : Specification of the output is the same as the input.
- Output : Open collector transistor will sink 50mA max.

## 4 - 20mA Output

- Function : Flow Rate (calculated volume, mass and Energy)  
Temp, Pressure
- Isolation : Output is isolated
- Maximum Load : 600 ohms internally powered.
- Accuracy : Better than 0.1%
- Resolution : 12 Bits

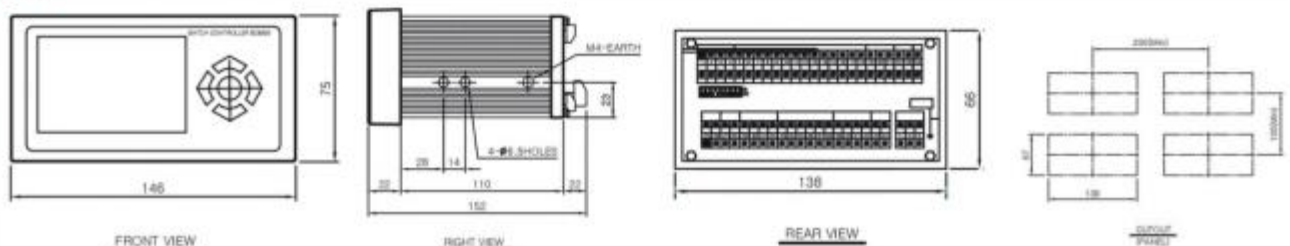
## RS232/485

- Type : Both RS232 and RS485 are provided.
- Function : Printer and computer protocols are fully programmable
- Printer : A print is initiated on each reset or at a programmable time interval. (Note : Protocols are provided for roll & column printers.)
- Computer : An ASCII based protocol enables all displayed parameters to be read and the totals to be reset
- Protocol : ASCII, ASCII2, MODBUS RTU, MODBUS ASCII
- Data Logging : Output generated at intervals of once a minute to once every 24 hours.
- The totals 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
- Baud rate : 2,400 ~ 57,600

## Relay Output

- Function :  
High and low flow rate alarms based on the flow rate in mass corrected volume or energy
- Maximum Ratings : Power : 250VA  
Voltage : 250VAC, 30VDC  
Current : 5 Amps

## Dimension



## Gorden rules Co.,Ltd

ADD : 30, Songdomirae-ro, Yeonsu-gu, Incheon, Republic of Korea

Tel : (032) 817-1240

Fax : (032) 817-1250

E-mail : hhm617@naver.com

Web : www.goldenrules.co.kr

