

# Air & Gas APPLICATION

Golden Rules Co.,Ltd

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## FN-MASS FLOWMETER KC-7730



The nation's development item, 100% domestic goods, Patent **NO.** 10-1606497

# 1. FN-MASS FLOWMETER

## KC-7730 Series



기체용

### Features

#### FLOW TRANSMITTER

- Output : 4~20 mA, RS485, Pulse
- Flow rate, Total
- 4~20mA : kg/h, m3/h, MJ/h, Nm3/h
- Pulse : ton, m3, Nm3, MJ
- Time unit : second, minute, hour
- Density, Viscosity, Enthalpy, Compressibility
- Input power : DC 24V, AC 110~220V(Option )
- Accuracy :  $\pm 0.5\%$  RD
- Display : Digital 2-line LCD backlight
- Operation : IR Touch
- Anti explosion : KCs

#### FLOW SENSOR

- Absolute pressure, Differential pressure
- Temperature
- Gas, Liquid, Steam

#### FLOW PIPE

- Orifice, Flow nozzle, Venturi, Suction, Pitot
- 15A~
- Flange, Groove joint, Lok fitting

#### Description

The KC-7730 series is ideal for any application. Accurate measurement and control of mass flow, volume flow and energy flow is very important. Flow transmitters can be used in a wide range of industries in flow management and can control flow and pressure. The KC-7730 series has received NET (new technology certification) from the Korean government.

Existing flowmeters simply display mass, but the KC-7730 series provides a reliable mass flow measurement method that applies expansion coefficient considering the viscosity coefficient of the fluid and density considering the compressibility according to temperature and pressure through flow compensation by temperature and pressure. applied

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### Applicable size:

Piping STD. : 15A(1/2B) ~ 600A (24B)

Connection : ANSI □ KS Flange / LOK fitting / Groove joint

Flow Body Mat'l : STS304

Sensor Mat'l : STS316

Pressure sensor allowable pressure:

System static pressure: 400 bar

One side overload pressure: 160 bar

### Features

#### Application :

Gas and liquid lines in industrial processes

Air compressor and blower air flow measurement

Petrochemical / Hydrogen / Steam / Biogas Process

#### Measurement principle:

Absolute and differential pressure sensors: single crystal silicon / metal sensors

Temperature sensor : RTD Pt100 (3-wire) characteristic :

Flow Accuracy:  $\pm 0.5$  % reading

Flow measurement: mass flow rate (kg/h) / volume flow rate (m<sup>3</sup>/h) / energy flow rate (MJ/h) / normal volume flow rate (Nm<sup>3</sup>/h)

Accumulation amount: mass (kg) / volume (m<sup>3</sup>) / energy (MJ) / normal volume (Nm<sup>3</sup>)

Display : Digital 2-line LCD backlight

Protection class : CE ATEX, KCs

Explosion Proof Rating: Ex d IIC T6, IP67

Screen operation: infrared touch / button switch

Fluid property display:

Insulation index / density / viscosity coefficient / enthalpy / compression coefficient

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## KC-7730 Series

### Flow Unit

| item                           |               | detail  |
|--------------------------------|---------------|---|
| Type                           |               | Differential Pressure type FN-Mass Flowmeter                                    |
| tightening mechanism           |               | Orifice, Flow Nozzle, Venturi Nozzle ... etc.                                   |
| Connection STD.                |               | KS 10K/20K/30K RF, ANSI 150/300/600 SO, Sanitary LOK female, Groove joint, etc. |
| Material                       | Flow Pipe     | Flow Pipe : STS304, Pressure pipe : STS316L                                     |
| Calibration accuracy           | Flow          | F.S $\pm 0.5$ %   |
|                                | Density       | $\pm 0.2$ %   |
| Applicable Fluid               |               | Gas, Liquid, Oil, Steam   |
| Temp' range                    | Fluid temp'   | -200 ~ +300°C   |
|                                | Ambient temp' | -40 ~ +80°C   |
| Working pressure               |               | Max. 450 Bar  |
| Flow direction                 |               | Left to right (std.)  |
| Components                     |               | Transmitter, Bracket, Flow Pipe   |
| Waterproof & dust proof rating |               | IP67  |
| How to instal                  |               | Integral or Remote  |
| Weight                         |               | About 5.2 kg  |
| Display                        |               | Backlight 2 line, 16-digit LCD  |
| How to operate                 |               | Button or IR turch  |
| Unit change                    |               | Flow (Mass, Volume, Energy) & unit of time                                      |
| Communication output           |               | Modus RTU (RS-485), dialing 1 ~ 249, 9600 ~ 115,200 bps                         |
| Analog output                  |               | 4~20mA Flow Rate(Mass, Volume, Energy), damping 0 ~ 10 sec                      |
| Pulse output                   |               | Open Collector Output, Voltage pulse(Optional) 24V or 5V                        |
| Error display                  |               | Hi / Lo Rerse flow, Sensor range over   |



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Gas, Steam, Liquid, Oil

**Mass Flowmeter**

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Certified in accordance with

 (주)골든룰