

Low-cost Mass Flow Sensor

MODEL 3810S SERIES

Designed on the heritage base construction of the superior class bypass capillary type mass flow sensor, the Model 3810S Mass Flow Sensor centers the focus on economy through a thorough effort towards streamlining with the view to built-in applications. The series is one of the KOFLOC best sellers and is used by many assembly manufacturers as a substitute for the existing float type (tapered pipe type) flow meter.

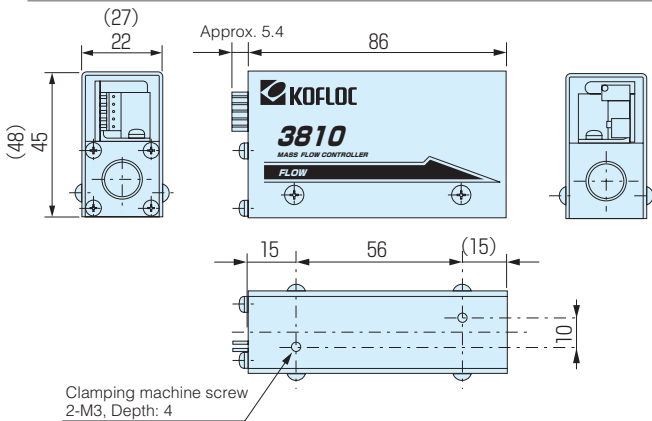
Features

- A low-cost, still, full-fledged sensor based on a combination of the constant-current temperature difference detection type with the bypass capillary type
- A large cost reduction makes Model 3810S almost rival any existing float type flow meter in price.
- 0 to 5VDC analog flow outputs provide various applications such as measurements recording, control and alarm issuance.
- The sensor is mass flow type. The user needs no troublesome calculations for flow correction due to the effects of temperature and pressure.

Standard Specifications

Flow range (at N ₂ calibration conditions)	F.S.10SCCM-2SLM	F.S.3-50SLM
Accuracy	Within ±2.0% F.S.(@20°C)	Within ±5.0% F.S.(@20°C)
Repeatability	Within ±0.5% F.S.(@20°C)	
Proof pressure	980kPa	
Working temperature range	5-45°C (Accuracy guarantee: 15-35°C)	
Materials of parts in contact w/gases	Body: SUS 303, PTFE	
	Sealing material: Viton®	
Joint	Standard: Rc 1/4	
Flow output signals	0-5VDC	
Required power supply	+15VDC (±5%) 40mA, -15VDC (±5%) 10mA	
Weight	250g	350g

Dimensions



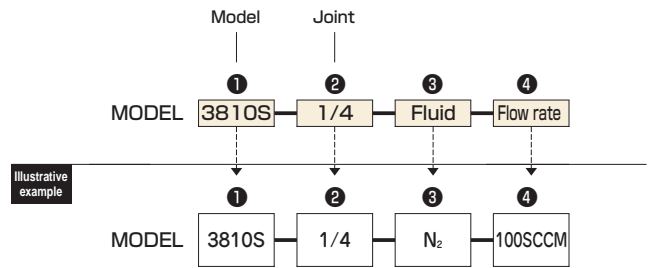
Cable Connections

No.1	Power source +15VDC
No.2	Power source COM
No.3	Power source -15VDC
No.4	Flow output 0-5VDC
No.5	Flow output COM

Note: The Series 3810 pin assignment has been modified from March 2000, and is not compatible with the old model. Please check the following:

AMP171826-5 on the Connector 3810 side
AMP171822-5 on the cable side

Ordering



* Refer to "Ordering" and "Illustrative Example" when placing an order or requesting a quotation. Fill in the blanks in the "Order/Quotation Request Card" at the end of the catalog, and send the card by fax.

Example of Wiring

