

Low-cost Digital Mass Flow Meter

MODEL D3810 SERIES

The Model D3810 is a completely renovated digital mass flow meter designed on the basic structure of existing KOFLOC Model 3810. Incorporating a CPU inside and is equipped with an innovative sensor, a single unit of this new model covers a broad range of flows from very small to large.

Features

- An economical but high-precision sensor that uses the bypass capillary method
- Digital control allows the user to handle a broad range of flows (100 cc to 50 L).
- Compact design (overall size is one size smaller than the Model 3810)

Standard Specifications

Flow range (N ₂ equivalent, 20°C/1 atm)	50 SLM
Sensor	Thermal mass flow sensor
Response	7 sec. or less
Accuracy	≥25 SLM ±2% RD < 25 SLM ±3% F.S. (20°C)
Repeatability	±0.5% F.S.
Proof pressure	980 kPa (G)
Allowable ambient temperature	5–45°C
Allowable ambient humidity	10–90% (No condensation allowed)
Materials of parts in contact with gases	Body: SUS303, PTFE Sealing: FKM (option: CR or NBR)
Electric connection	171826-5 (made by AMP)
Flow rate output signals	0–5 VDC (Allowable external load resistance: 250 kΩ or more)
Required power supply	±15 VDC ±5%, 60 mA
Joint (Main unit bore)	Rc 1/4
Weight	Approx. 500 g

Note

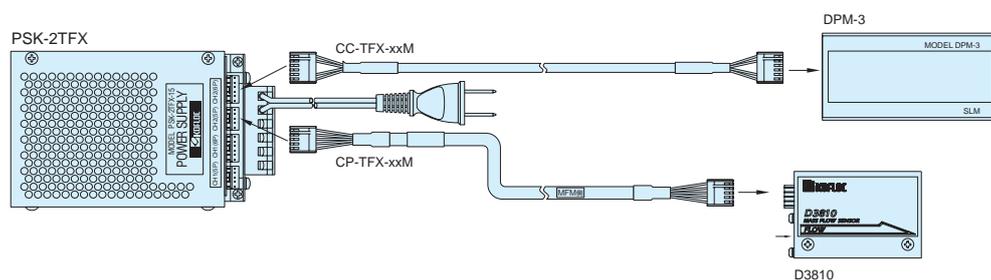
Specifications relating to the flow range (e.g., flow range, accuracy and response) are expressed in N₂ or air equivalent. The product will be built with the primary pressure of 300 kPa or less and the secondary side open to the atmosphere. For details on the pressure requirements, please contact us.

Cable Connections

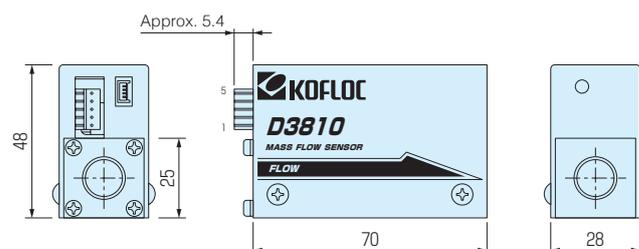
No.1	Power source +15VDC
No.2	Power source COM
No.3	Power source -15VDC
No.4	Flow output 0-5VDC
No.5	Flow output COM

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

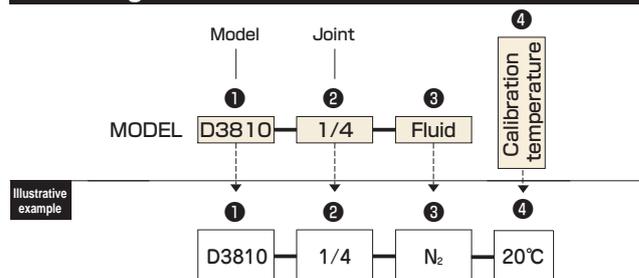
Example of Wiring



Dimensions



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.