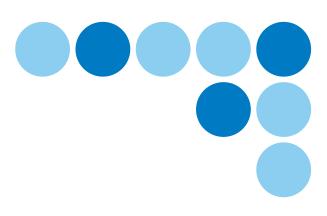


Air Flow Sensor D6FZ-FGT200 D6FZ-FGT500 D6FZ-FGS1000

Air Flow Station D6FZ-FGX21

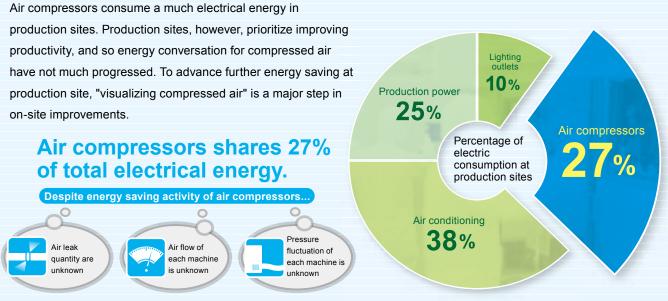
OMRON



AIR FLOW SENSOR



Visualization of Air Flow, Pressure, Leakage quantity enable more Energy Savings in production site.



Note: Shows the status of use at Omron production sites

As air is invisible, so there is much waste.



Increased energy conservation is possible in a variety of applications

D6FZ-FGT

Idling stop for ionizer





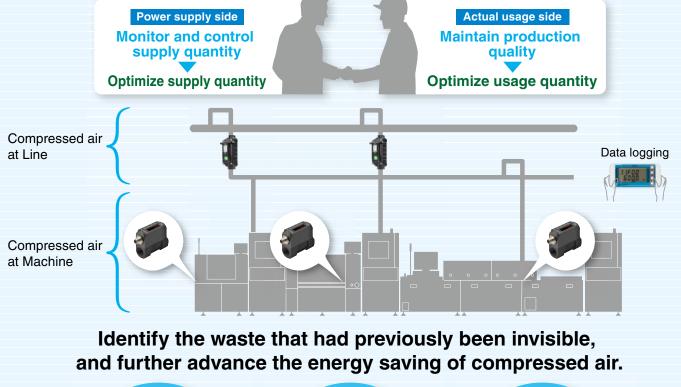
By stopping the supply of compressed air with a magnetic valve when there is no work, the quantity of compressed air usage is reduced. At the same, the flow sensor monitors the quantity of compressed air supplied to ensure that it is within a specified range. Therefore, the sensor can help maintain and improve quality.



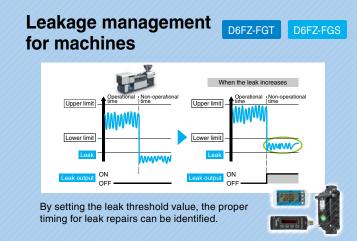
conservation can be advanced effectively.

Consequently

Require cooperation both supply side and usage side for visualization. Lead to reduction of electric energy or maintenance of quality.







Flow and pressure management for production line



By monitoring the usage quantity and pressure fluctuations for each production line, bottleneck line or machine can be identified in order to advance on-site improvements and energy conservation.

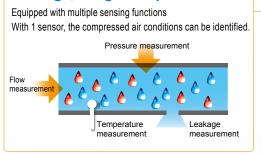
The best product to measure compressed air at Line

D6FZ-FGS1000

Pipe size: Rc1/2 (25A) (Bushing can be used to convert down to 15A)

Multiple sensing

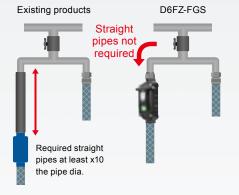
Simultaneous measurement of Leakage, usage and pressure



Simple setting

Mountable to curved Silencer

The built-in silencer eliminates ultrasonic noise and turbulence flow. It makes installation work easy because straight pipes not required.





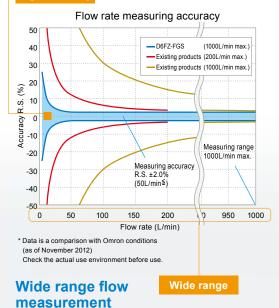
1 2 3 Leakage Usage Pressure

High accuracy

High accuracy flow measurement

High measuring accuracy of ±2% R.S. (50L/min≦) is achieved.

High accuracy



Wide measuring range of 1~1000L/min is achieved.

Tolerant of oil and mist

Ultrasonic sensor

Featuring ultrasonic sensor It can be installed to rusty pipe, and measured gas discharged from oil flooded compressor.

Analog output (2 outputs)Pulse output (2 outputs)

 Threshold value (peak/bottom/leak)

· Alarm hold

- Main RS-485 communications
- functions
 - IP64
 - Operation indicator

Functional	Flow measurement	Leakage measurement		Temperature measurement
comparison	Curved pipe mounting	Tolerant of oil and mist	Station connection	Multi-sensor connection

The best product to measure compressed air at Machine



D6FZ-FGT200/500



Easy to see

11 segment 8 digit LCD display

The characters are easy to recognize, and integrated flow rate can be checked with one glance.

Clear integrated flow rate

Averaging count setting

Reversing the display

The display can be reversed according to the installation direction.





Other Features

Flow straightener Honeycomb structure

Honeycomb structure with a high performance of flow straightening keep pressure loss low.

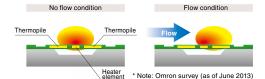


200L type 500L type Pipe size: 8A(Rc1/4) Pipe size: 15A(Rc1/2)

High accuracy

High accuracy flow measurement

Using Omron's MEMS chip, the highest accuracy in the industry* of ±2% F.S. (50L/min≦) is achieved.



Leakage measurement

At a low flow rate (<50L/min), ±0.5% F.S. high accuracy measurement is achieved. Air flow (money amount) that is discarded as leakage when machines are in non-operational time can be identified.



Same specifications as for the 1000L type

Zero reset

Using the zero reset, seasonal or day/night variation in the flow rate can be identified.



 Analog output (1 output) Pulse output (2 outputs)

- RS-485 communications functions
 - IP65

Main

- Display
- Threshold value (peak/bottom/leak)
- Peak//Bottom hold
- Auto-tuning
- Key lock

Functional	Flow	Leakage	Pressure	Temperature
	measurement	measurement	measurement	measurement
comparison	Curved pipe mounting	Tolerant of oil and mist	Station connection	Multi-sensor connection

Energy-Saving activity examples

Reducing the air quantity used Protecting the leakage **Repair tubing and fitting** Charging based on air against air leaks usage Identifying the flow rate and repairing Management of consumption rate pipes reduces the air lost to waste. and charging based on usage helps to continuous activities for energy Defective cylinder saving. operation Peak shift/peak cut amount use ٩ï 8:00 14:00 10:00 10:00 Seeing the air flow during operational time identifies the use amount Extremely bent tube

Deteriorated

tube

Incomplete insertion

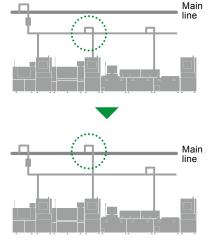
Deteriorated gasket



Reducing the supply pressure

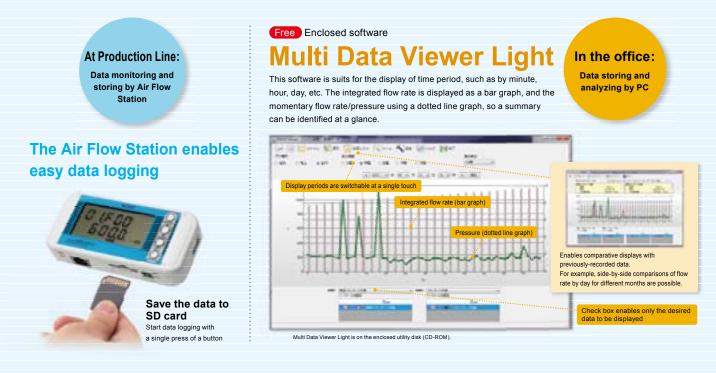
Rearranging the pipe distribution

The machine its supply pressure fluctuate widely should be changed piping as below, and then stabilize and turn down supply pressure.



Enclosed software can easily analyze Logged Data

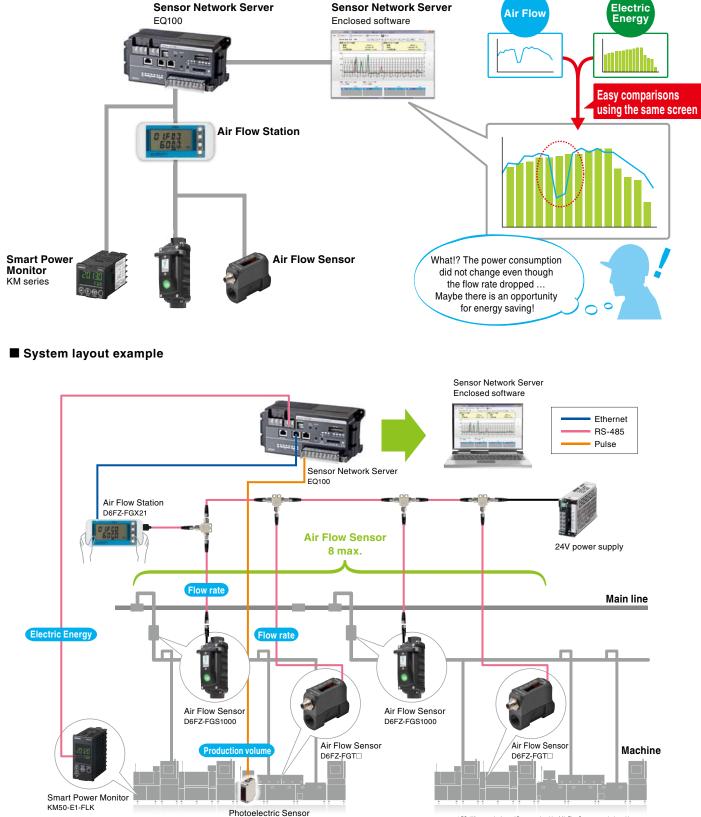
Enables further activity for energy saving to monitor the data of Air Flow Station and analyze the data of Multi Data Viewer Light Software.





Find the Energy Efficiency by logging the data simultaneously both electric consumption and production volume.

The results of simultaneous measurement, show the following



List of specifications

Units

Appearance	Product name	Model
	Air Flow Sensor (200L type)	D6FZ-FGT200
	Air Flow Sensor (500L type)	D6FZ-FGT500
	Air Flow Sensor (1000L type, cable length: 0.2m)	D6FZ-FGS1000
	Air Flow Station (Cable length 1.5m, including T-branch connector cable)	D6FZ-FGX21
	Air Flow Sensor Set (1000L type) • Air Flow Sensor (1000L type) • Air Flow Station • T-branch connector • Single-end wire cable (3m)	D6FZ-FGS1000-S

Option (sold separately)

Appearance		Model		
	T-branch connector			D6FZ-FC02
	 (Air Flow Sensor D6FZ-FGT only) Mounting bracket Mounting bracket: 1 Plus screw (M3): 4 			D6FZ-FC03
	(Air Flow Station D6FZ-FGX21 only) Mounting magnet* • Mounting magnet: 2 • Plus screw (M3): 2			ZN9-EM01-S
	Single-end wire cable	Cable length 3m		D6FZ-JD3A
		Cable length 10m	M12 connector (8 pin)	D6FZ-JD10A
		Cable length 20m		D6FZ-JD20A
		Cable length 3m		D6FZ-JD3B
		Cable length 5m	M12 connector	D6FZ-JD5B
	Double-end connector cable	Cable length 10m	(8 pin)	D6FZ-JD10B
		Cable length 20m		D6FZ-JD20B

* When magnets are used, the maximum vibration resistance is 55Hz.

Ratings

Air Flow Sensor

Item		Model	D6FZ-FGT200	D6FZ-FGT500	
Applicable fluid			Air, nitrogen (N ₂)* ¹		
Working pressure			0.75MPa (withstand pressure 1.5MPa)		
Measureme	nt range*2		0 to 200L/min	0 to 500L/min	
Measureme	nt accuracy ran	ge* ²	2 to 200L/min	5 to 500L/min	
Display Res	olution*2		1L/min		
Accuracy* ²			±2.0%F.S. at 50L/min or more		
			±0.5%F.S. at less than 50L/min		
Temperatur	e characteristic		±3%F.S.		
Repeat accu	uracy		±1%F.S.		
Operating te	emperature		Operation: -10 to 60°C / Storage: -20 to 70	°C (no condensation or icing)	
Operating h	umidity		Operation: 25 to 90%RH / Storage: 0 to 90%	6RH (no condensation or icing)	
Shock resis	tance		150 m/s ² in 6 directions (+/-X, +/-Y, and +/-2	Z directions), 3 times each	
Pressure los	SS		2kPa max.	4kPa max.	
Power supp	ly voltage		12 to 24 VDC ±10% ripple (p-p) 10% max.		
Current con	sumption		120mA max.		
Functions			Momentary flow / Integrated flow / Reversing display / Zero point Adjustment / Peak and Bottom Hold / Key Lock / Eco Mode / Scaling (Analog Output) / Judgement Hysteresis / Teaching		
Display			11-segment digital display (Red), RUN / FUN / THR (Yellow), Out1 / Out2 (Yellow), Key Lock (Yellow), Flow unit (Green), Flow unit in reversed display (Yellow)		
		Analog	Current output 4 to 20mA (1 contact), maxin	num load resistance 300 Ω max.	
	Output	ON/OFF	Open collector output (2 outputs) 26.4 VDC 50mA max. ON residual voltage 2V max. (Outputs can be selected from judgement output, pulse output and unit error o		
Output	interface	RS-485	2-wire half duplex communication, start-stop synch method Baud rate: 9.6k/19.2k/38.4k/115.2kbps, data bit length: 7/8bit, stop bit length: 1/2bit, parity: none/even/odd, termination resister (120Ω): ON/OFF, communications protocol: compatible with CompoWay/F		
	Output value	es	Momentary flow, Integrated flow, Judgement output *3, Unit error output		
Degree of p	rotection		IP65		
Connection bore diameter			Rc1/4 (8A)	Rc1/2 (15A)	
Material			Main unit: PBT / Flow channel: Zinc		
Dimensions			$30(W) \times 77(D) \times 63.7(H) \text{ mm}$		
Weight (in package)			Approx. 400 g (500 g)		
Accessories	;		Instruction Sheet		

*1. Clean Dry Gas (must not contain large particle e.g. duct, oil and mist)
 *2. Converted value assuming the accumulated flow quantity following conditions std (factory default) : 20°C at 1 atmospheric pressure 101.3kPa, nor : 0°C at 1 atmospheric pressure 101.3kPa
 *3. To prevent chattering, a judgement output is made when the judgement continues for one minute or longer.

Item Model		Model	D6FZ-FGS1000		
Applicable fluid			Air, nitrogen (N ₂)		
Working pressure			0.99MPa max.		
		Detection range	1 to 1,000L/min (std)		
		Resolution	0.1L/min		
	Flow ^{*1}	Accuracy	±2.0% of reading at 50 L/min (std) or more*2		
M			±0.1%F.S. at less than 50L/min		
Measurement	D	Detection range	0 to 0.99MPa		
	Pressure	Accuracy	±2%F.S.		
	- .	Detection range	-10 to 60°C		
	Temperature	Accuracy	±1.5% (absolute temperature)		
	Operating tem	perature	-10 to 60°C (no condensation or icing)		
Resistance	Operating hur	nidity	35 to 85%RH (no condensation or icing)		
to environ- ment	Vibration resis	stance	10 to 55Hz double amplitude: 0.7mm, Acceleration: 50m/s ² in X, Y and Z directions (80min)		
mont	Shock resista	nce	150 m/s ² in 6 directions (+/-X, +/-Y, and +/-Z directions), 3 times each		
Pressure loss			Direct piping:10kPa max. (0.5MPa, at maximum flow) Using coupler (TL type by NAGAHORI INDUSTRY CO., LTD.): 10kPa max. (0.5MPa, at maximum flow)		
Power supply voltage			16 to 24 VDC ±10% ripple (p-p) 10% max. (Using single unit), 24 VDC ±10% ripple (p-p) 10% max. (Using multiple units) *3		
Power consur	nption		2W max.		
Measurement	cycle		Approx. 62.5ms		
Diamlay	Display metho	od	Status display by 2-color LED (illumination/blinking)		
Display	Diplay value		Presence or absence of current-carrying, flow and error alarm		
		Analog	Current output 4 to 20mA (2 contact) ^{*4} Max. load resistance 270Ω max.		
	Output interface	ON/OFF	Open drain output (2 outputs)* ⁵ 24 VDC 50mA max. ON residual voltage 1.5V max., OFF leakage current 50µA max.		
Output		RS-485	2-wire half duplex communication, start-stop synch method Baud rate: 115.2kbps (fixed), Data bit length: 8 bits (fixed), stop bit length: 1 bit (fixed), parity: even (fixed), communications protocol: compatible with CompoWay/F		
	Outpus values		Momentary standard flow, Integrated standard flow, pressure, unit error output		
Degree of protection			IP64 (except the case with the switch cover removed)		
Wiring connection			M12 connector (8-pin)		
Connection bore diameter			Rc1 (25A) bushing enables conversion to 15A and 20A		
Material			Cable: PVC (Polyvinyl Chloride); Main unit: Aluminum die-cast; Display: Acrylic		
Dimensions			64(W) × 93(D) × 195(H) mm (excluding flange)		
Weight (in package)			Approx. 1.2 Kg (Approx. 1.7 Kg)		
Accessories			Instruction Sheet		

*1. Converted value assuming the accumulated flow quantity under the conditions of 20°C at 1 atmospheric pressure 101.3kPa.
*2. Does not include pressure and temperature accuracy. Conversion accuracy to the standard flow is ±2.5% of reading (at 20°C, 0.5 MPa).
*3. Make sure to ground the 0V terminal, and do not ground the 24V(+) terminal. There is a risk of malfunction.
*4. Analog output comprise the momentary standard flow rate and pressure.
*5. The integrated standard flow of the pulse output can be selected from 1, 10 (factory default), 100, or 1000 L(std)/P.

Air Flow Station

Item Model	D6FZ-FGX21		
Connectable sensor	D6FZ-FGT200 / D6FZ-FGT500 / D6FZ-FGS1000		
Maximum number of mounted Sensors	8 units*1		
Display	7-seg. 5-digit 2-step LCD display, auxiliary information indicator displays		
Recording interval	1 s, 2 s, 5 s, 10 s, 20 s, 30 s, 1 min.		
Displayed data	Momentary flow rate, integrated flow rate, pressure, temperature, charge/CO2 conversion value		
Recorded data	Momentary flow rate, integrated flow rate, volume flow rate, pressure, temperature		
Operation function	Conversion of integrated flow rate to charge/CO2		
Recording mode	Continue mode* ² , Ring mode* ³		
External output	Alarm output (Photocoupler output) *4		
Communication interface	Ethernet (10BASE-T, 100BASE-TX)		
Internal storage device	Internal memory: Approx. 4200 data items when 1 unit is connected, approx. 650 data items when 8 units are connected		
External storage device	SD card (to save measured values and to save/read set values), Recommended SD card: HMC-SD291 (manufactured by OMRON) *5		
Power supply voltage	DC input: 24 VDC±10% ripple (p-p) 10% max.		
Current consumption	80 mA max.		
Operating temperature	Without Ethernet: -10°C to 40°C (no condensation or icing), with Ethernet: 0°C to 40°C (no condensation or icing)		
Operating humidity	35 to 85%RH (no condensation or icing)		
Storage humidity/temperature	-15°C to 60°C, 20% to 85%RH (no condensation or icing)		
Insulation resistance	20 MΩ (500 VDC)		
Withstand voltage	1000 VAC, 50/60 Hz, 1 min.		
Vibration resistance	10 to 150 Hz, 0.7 mm double amplitude, acceleration: 50 m/s ² for each in X, Y and Z directions for 80 min		
Shock resistance	150 m/s ² in 6 directions (+/-X, +/-Y, and +/-Z directions), 3 times each*6		
Material	ABS		
Degree of protection	IP30		
Mounting	Magnet mounting, screw mounting, hook		
Dimensions	117.2(W) × 24.6(D) × 56.8(H) mm (Except protruding part)		
Weight (in package)	Approx. 150 g (Approx. 500 g)		
Accessories	Instruction Sheet, Startup Guide, Utility Disk (CD-ROM) ⁺⁷ , T-branch connection cable ⁺⁸ , Alarm Output Connector ⁺⁹		

*1. Up to 8 units can be connected when the recording cycle is 2 seconds or longer; up to 4 units when the recording cycle is 1 second.

*2. Automatically writes the data to the SD memory card when the internal memory reaches its capacity and continues recording until the SD card memory capacity reaches its limit.

The unit stops operation if there is no SD memory card inserted when the internal memory reaches its capacity, or when it is write protected. (Recording can be resumed after inserting an SD memory card and outputting the data to it at a press of button.) The factory default is continue mode. Use a provided software to change the recording mode.

*3. Continues the recording of the latest measured values until the internal memory reaches its capacity. (If the internal memory capacity exceeds the capacity, data is overwritten from the oldest one in the memory.) *4. Output when the range of upper/lower limit of the air flow that has been set in threshold setting mode is exceeded.

*5. If you use an SD card from another manufacturer, use an SDHC Class 4 or higher card. (You must confirm the operation of the SD card yourself.)

6. When using a mounting magnet, be sure to install it in a location where shock is not applied.
7. The utility disk includes Multi Data Viewer Light, WZ Manager, and the PDF manual. The provided software operating environment/OS: Windows XP (32-bit version)/Windows Vista (32-bit version)/Windows7 (32-bit version) CPU: Intel-compatible processor 1.5GHz or higher.; Memory: 1GB or more (Recommended: 2GB or more)
*8. A T-branch connector to connect to D6FZ-FC02.
*0. ONDOWN WMM 2001 UK approximate.

*9. OMRON's XW4B-02B1-H1 connector

Connection

Connection diagram

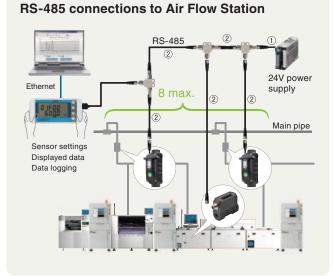
[with 1 sensor]

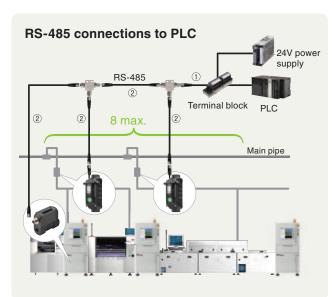
Single-end wire cable
 Double-end connector cable

PLC

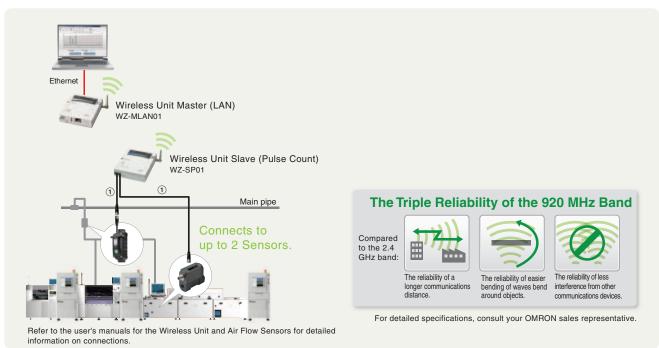


[Data communications with multiple sensor connections]





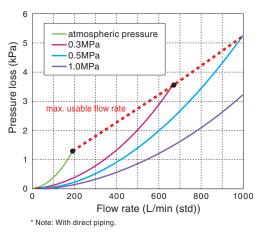
[Wireless Data Collection]



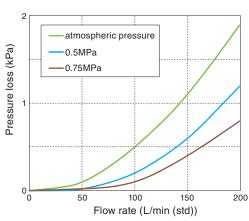
Characteristics data

Pressure loss* (typical example)

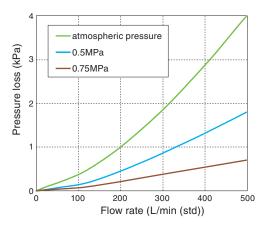
D6FZ-FGS1000



D6FZ-FGT200



D6FZ-FGT500



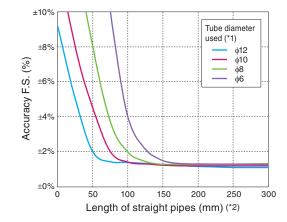
Min. and max. flow rate conversion table (typical example) D6FZ-FGS1000

Temperature [°C]	Pressure [MPa]	Min. flow rate [L/min (std)]	Max. flow rate [L/min (std)]
	0.3	3.96	667.37
20	0.5	5.93	999.94
	0.7	7.91	1000.00
	0.3	3.89	656.17
25	0.5	5.83	983.17
	0.7	7.78	1000.00
	0.3	3.83	645.35
30	0.5	5.74	966.96
	0.7	7.65	1000.00

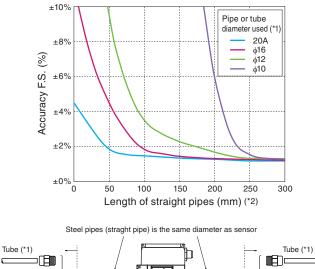
Flow rate accuracy characteristics for a length of straight pipe

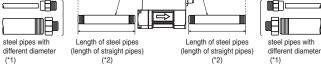
<D6FZ-FGT only>

The following graph shows the flow rate accuracy characteristics for a length of straight pipe (reference information). D6FZ-FGT200









Safety Precaution

Read the agreement when ordering.

Air Flow Sensor

\Lambda Warning

This device cannot be used to detect people either directly or indirectly for the purpose of assuring safety.



Do not use the product as a detector for personal safety.

The use of flammable gases may cause explosion.

Do not use the product with flammable gases.

Electric shock may occur. Do not connect the product to a AC power supply.



A Caution

Do not use in an ambient atmosphere or environment that exceeds the ratings.

Injury may occur due to explosion.

Flow rate and pressure must be within the range of use.



<D6FZ-FGT only>

If water drop, oil, mist and dust flow in the body, it may mismeasurement and destruction. Use

clean fluid. Dust and mist can affect the characteristics of Sensor or damage the Sensor. Install a filter and mist separator on the upstream tube. Moreover, install an air flow sensor after removing the dust remaining in pipe by something like air blow.

Precautions for Correct use

Piping and Mounting

<D6FZ-FGT only>

Applicable diameter : D6FZ-FGT200 / 8A, D6FZ-FGT500 / 15A When piping, be sure to use a same diameter steel pipe for the body conduit (straight pipe / elbow).

If piping different diameter pipes or using the fittings for air tubing is required, be sure to use the straight same diameter steel pipes with the body at both ends directly to make measurement accuracy better.

For details to p.12, "Flow rate accuracy characteristics for a length of straight pipe".

Air Flow Station

🕂 Warning

The mounting magnets provided with the product have strong magnetism. If the product is mounted using these magnets, anyone wearing a heart pacemaker must not operate the product; or the product must not be in proximity of such a person.

This product contains lithium batteries. Serious injury may occur due to fire or explosion. Do not attempt to disassemble the product, deform it by applying pressure, heat it in a high temperature (100°C or more), or burn it for disposal.

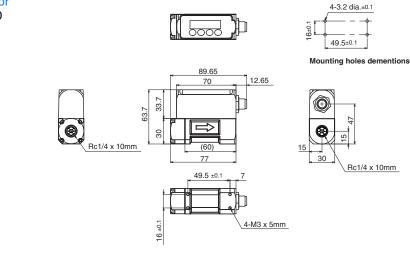




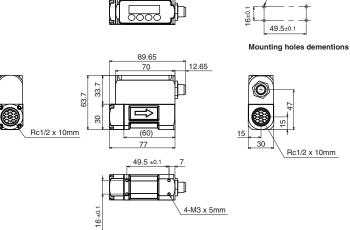
Dimensions

For products with the CAD data mark, the data for the 2-dimensional CAD drawings and 3-dimensional models is available. The CAD data can be downloaded at www.fa.omron.co.jp. (unit: mm) Unspecified dimensions tolerances: Tolerance class IT16

Air Flow Sensor D6FZ-FGT200

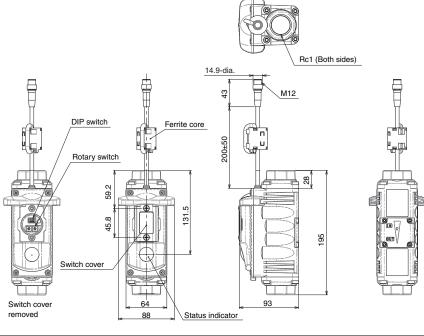


D6FZ-FGT500

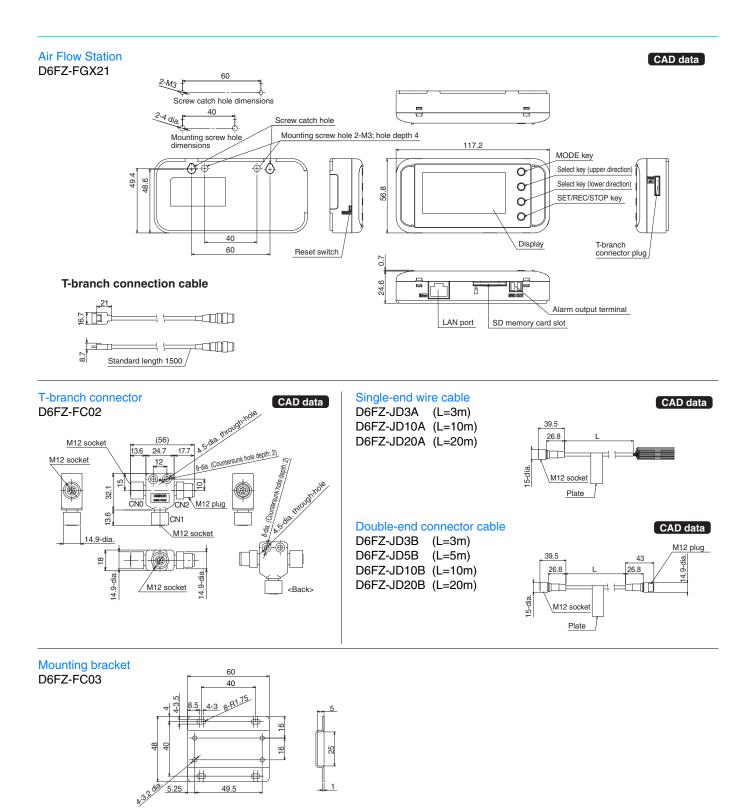


4-3.2 dia.±0.1

D6FZ-FGS1000



CAD data



5.25

49.5

MEMO

Terms and Conditions Agreement

Read and understand this catalog.

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Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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OMRON Corporation Industrial Automation Company

Tokyo, JAPAN

industrial Automation Com

Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V. Sensor Business Unit Carl-Benz-Str. 4, D-71154 Nufringen, Germany Tel: (49) 7032-811-0/Fax: (49) 7032-811-199

Tel: (49) 7032-811-0/Fax: (49) 7032-811-199 Tel: (1) 847-843-79
OMRON ASIA PACIFIC PTE. LTD.
No. 438A Alexandra Road # 05-05/08 (Lobby 2), Room 2211, Bank

No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711 OMRON ELECTRONICS LLC 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

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