Specification

MagneWTM Two-wire PLUS+ **Two-wire Electromagnetic Flowmeter**

Model MTG18A (Integral type)
Model MTG14C/MTG18B (Remote type)

OVERVIEW

The MagneW Two-wire PLUS+is a high performance electromagnetic flowmeter based on field proven Azbil Corporation's two-wire loop powered technology. The MagneW Two-wire PLUS+ offers the stable and accurate measurement of a traditional magflow meter with low power consumption. The result is a lower overall cost of ownership.

FEATURES

Two-wire operation

MagneW Two-wire PLUS+ improves its noise immunity performance by 700% maximum and 250% in average. For the spike noise, MagneW Two-wire PLUS+ improves its noise immunity performance in 250% in average.

High accuracy and stable output

MagneW Two-wire PLUS+ provides high accuracy (\pm 0.5% of rate) and its output is as stable as current four wired magnetic flowmeters.

Minimum measurable fluid conductivity

The MagneW Two-wire PLUS+ offers a minimum process fluid conductivity of 10μ S/cm which is the best among two-wire magflow meters thereby maximizing applicability.

Wider range in size

MagneW Two-wire PLUS+ offers wider range in detector

Detector size: 2.5 to 200 mm.

Wafer and flange style, integral and remote style available

The MagneW Two-wire PLUS+ is available integral or remote, flanged or wafer, making the selection of the right meter for the application simple.

Electrode status diagnostic function

The MagneW Two-wire PLUS+ offers the diagnostic function for the electrode condition.

It diagnoses the Empty pipe condition or scale on electrode condition.



APPLICATIONS

- Corrosive liquid measurement
- Chemical solution measurement
- Drainage/waste disposal fluid measurement
- Drinking water and waste water service
- Industrial/agricultural water measurement
- Seawater measurement

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FUNCTIONAL SPECIFICATIONS

Enclosure rating

NEMA TYPE 4X, IEC IP67

Hazardous Areas certifications

Integral type

FM approval

<for Division 1>

Class I, Division 1, Groups A, B, C & D, T4; Class II, Division 1, Groups E, F & G, T4; Class III, T4, -20 °C \leq T_{amb} \leq +60 °C

<for Division 2>

Nonincendive for

Class I, Division 2, Groups A, B, C & D, T4; Class II, Division 2, Groups F & G, T4; Class III, T4; Class I, Zone 2, Group IIC, T4, $-20~^{\circ}\text{C} \leq T_{amb} \leq +60~^{\circ}\text{C}$

CSA certification

<for Division 1>

Class I, Division 1, Groups A, B, C & D, T4; Class II, Division 1, Groups E, F & G, T4; Class III, T4, -20 °C \leq T_{amb} \leq +60 °C

<for Division 2>

Class I, Division 2, Groups A, B, C, & D, T4; Class II, Division 2, Groups E, F & G, T4; Class III, T4, -20 °C \leq T_{amb} \leq +60 °C

ATEX(KEMA) Certification

<for Type n>



Ex nA II T6 T135°C at Tprocess: -40...+85°C Ex nA II T5 T135°C at Tprocess: -40...+100°C Ex nA II T4 T135°C at Tprocess: -40...+130°C -40 °C \leq Tamb \leq +60 °C KEMA 07ATEX0066 IP66/67

NEPSI Certification

<Increased safety and Dust ignition proof>

GYJ22.1841X

Ex ec IIC T6 Gc; Ex tb IIIC T135°C Db Ex ec IIC T5 Gc; Ex tb IIIC T135°C Db Ex ec IIC T4 Gc; Ex tb IIIC T135°C Db -40°C $\leq T_{amb} \leq +60$ °C IP 67

Remote type

FM approval

<for Division 2>

Nonincendive for Class I, Division 2, Groups A, B, C & D, T4; Class II, Division 2, Groups F & G, T4; Class III, T4; Class I, Zone 2, Group IIC, T4,

CSA certification

 $-20 \text{ °C} \le T_{amb} \le +60 \text{ °C}$

<for Division 2>

Class I, Division 2, Groups A, B, C & D, T4; Class II, Division 2, Groups E, F & G, T4; Class III, T4, -20 °C \leq T_{amb} \leq +60 °C

European Pressure Equipment Directive (2014/68/EU)

This product is subject to the European Pressure Equipment Directive (PED).

Article 4 of the PED differentiates pressure equipment according to the degree of danger.

The maximum allowable pressure of this product is stated on page 5 of this document. Note, however, that because this product is designed and manufactured in accordance with sound engineering practice (SEP) as described in article 4, section 3 of the PED, there are restrictions on the pressure range when this product is used in a country where PED is applicable.

Determine the maximum allowable pressure by checking the following items.

(1) Group of the fluid

Check the group of the fluid according to article 13 of the PED.

- Group 1: Hazardous fluids
- Group 2: Non-hazardous fluids
- (2) Vapor pressure at the maximum allowable temperature of the measured fluid

Check the applicable category, (i) or (ii).

- (i) Liquid whose vapor pressure at the maximum allowable temperature is greater than 0.5 bar above normal atmospheric pressure (1013 mbar)
- (ii) Liquid having a vapor pressure at the maximum allowable temperature of not more than 0.5 bar above normal atmospheric pressure (1013 mbar)
- (3) Nominal size (DN) of the electromagnetic flowmeter Check the nominal size of the flowmeter.
- (4) Maximum allowable pressure for equipment designed by SEP.

In table 1, find the cell where the results of (1), (2), and (3) meet.

"Tables 6–9" shown in table 1 below are taken from article 4 and annex II of the PED.

(5) Maximum pressure

Whichever of the pressures below is the lowest is the applicable pressure.

- Maximum pressure for this product: see page 5 of this document
- Maximum pressure for SEP equipment defined by the PED: see (4) above
- Maximum pressure for the flange: see the applicable standard

Table 1. Maximum allowable pressure for SEP products

(1) Fluid	group	Grou	ıр 1	Grou	ıp 2	Grou	ıp 1	Group 2		
(2) Vapor _I	oressure	(i)	(i)	(ii)	(i	i)	
PED to	able	Tab	le 6	Tab	le 7	Tabl	e 8	Table 9		
				(4) Maxin	num allowable	e pressure				
	mm	m bar l		bar	MPa	bar	MPa	bar	MPa	
	2.5	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	
	5	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	
	10	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	
	15	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	
(3)	25 No limit No lim		No limit	No limit	No limit	No limit	No limit	No limit	No limit	
Nominal size	40	40 0.5 0.09		25.0	2.50	No limit	No limit	No limit	No limit	
(DN)	50	0.5	0.05	20.0	2.00	No limit	No limit	No limit	No limit	
	65	0.5	0.05	15.3	1.53	No limit	No limit	No limit	No limit	
	80	0.5	0.05	12.5	1.25	25.0	2.50	No limit	No limit	
	100	0.5	0.05	10.0	1.00	20.0	2.00	No limit	No limit	
	125	0.5	0.05	8.0	0.80	16.0	1.60	No limit	No limit	
	150	0.5	0.05	6.6	0.66	13.3	1.33	No limit	No limit	
	200	0.5	0.05	5.0	0.50	10.0	1.00	No limit	No limit	

Output signal

Analog output

4 to 20 mA DC

Digital output

DE

Analog or Digital output is selectable.

Pulse output

Open collector output (30V DC, 100 mA max.)

Pulse frequency: 0.0001 to 200 Hz

Pulse width: 1 ms to 1 s

LOW value: 2.7V (10mA) (Refer to the blow drawing.)



Contact output

Open collector output (30V DC, 100 mA max.) Pulse or contact output is selectable

Communication protocol

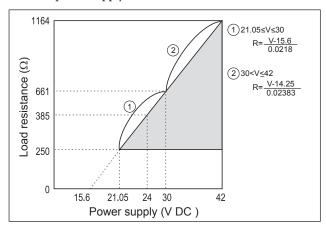
SFC communication and HART communication

HART communication

Multidrop mode: current fixed at 12mA
 Optional Burst mode is not available.

Load resistance characteristic of communication

External power supply 21.05 to 42V DC for communication.



Note) The load resistance of 250 Ω or more is necessary for communications of SFC and the HART communicator.

Flow unit

Volume flow: m3, L, cm3, G (gallon), mG, kG,

B (barrel), IG (imperial gallon), mIG, kIG

Mass flow: t, kg, g, lb Time: d, h, min., s

Display

Display: LCD

Main display: 7-segment, 8 digits Sub display: 16 digits, 2 lines

Display contents:

Simultaneously displays % flow rate, Actual flow rate (eng. unit) and Totalized value.

Data setting

Operation by four key switches

Damping

Adjustable between 0.5 and 199.9 seconds.

Low flow cutoff

Adjustable between 0 and 10% of setting range. Below selected value, output is driven to the zero flow rate signal level.

Dropout

Adjustable between 0 and 10% of setting range. Below selected value, pulse output is cut.

Electrode status diagnostic

Detect empty pipe condition or scale on electrode condition by monitoring flow rate signal. Once the flow rate signal fluctuates over a certain threshold, the device judges that the detector is empty or scale appears on the electrode.

The Electrode status diagnostic function makes the analog output and pulse output to the values as selected in the below "Electrode status output mode" table.

The display alternately shows the output values selected and "EMPTY OR SCALE ON ELECTRODE".

There are five threshold levels to meet an environment where the device is installed. Set an appropriate threshold level from below.

SENSITIVITY HIGH SENSITIVITY MID SENSITIVITY LOW SENSITIVITY LL SENSITIVITY LLL

Default setting: OFF Operating condition:

The following conditions must be met when using the electrode status diagnostic function.

• Diameter: 10 mm or larger

- Electric conductivity of fluid: 30 µS/cm or greater
- Grounding: Grounding resistance must be less than 100Ω
- The noise level must be over the set threshold when the pipe is empty.
- The noise level must be under the set threshold when the process fluid flows in the detector.

"Electrode status output mode" table

Output/Display		Parameter selection in the "Electrode status output mode"										
Output/Display	OFF	ZERO	HOLD									
Analog 4 – 20mA output	Output values as the meter measures.	Analog output is fixed to 0% (4mA).	Analog output is held at its last good value.									
Pulse output	Output values as the meter measures.	Pulse output is fixed to 0 (does not generate pulses).	Pulse output is held at its present state.									
Display	Display the value as it measures.	Flashes the message 0% and "Empty or scale on electrode" alternately (when % flow rate is specified for the main display). Flashes the message 0.000 RATE and "Empty or scale on electrode" alternately (when actual flow rate is specified for the main display). Flashes the message XXXXXXXXX (totalized value at setup) and "Empty or scale on electrode" alternately (when totalized value is specified for the main display).	Flashes the values at its last good values and a message of "Empty or scale on electrode" alternately.									

Lightning protection

12 kV, 1000A

Equipped with the lightning arrester in the power source and external output terminals.

Power failure

An EEPROM retains data record of totalized value when pulse output is used (retention period approximately 10 years).

Power supply

15.6 to 42V DC (without communication) 21.05 to 42V DC (with communication)

Current capacity: 24mA min.

In case of current capacity is 22mA, the voltage must be 15.6V minimum.

Size

Wafer style

25, 40, 50, 65, 80, 100 mm (1, 1-1/2, 2, 2-1/2, 3, 4 inches)

Flange style

2.5, 5 mm (0.1, 0.2 inch) (Model MTG18A only) 10, 15, 25, 40, 50, 65, 80, 100, 150, 200 mm (3/8, 1/2, 1, 1-1/2, 2, 2-1/2, 3, 4, 6, 8 inches)

Flange rating

ANSI150, ANSI300, DIN PN10, DIN PN16, DIN PN25, JIS10K, JIS20K, JIS30K

Reference flange standard

JIS; JIS B2210 (1984) ANSI; ANSI B16.5 (1988)

Ambient temperature limits

-20 to 60 °C (-4 to 140 °F)

Ambient humidity limits

10 to 90% RH

Vibration effect

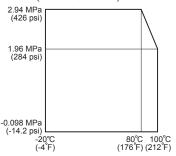
Integral style: 4.9m/s²(0.5G) max.

Remote style converter: 19.6m/s²(2G) max. Remote style detector: 19.6m/s²(2G) max.

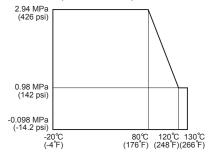
Temperature range and pressure range of process fluid

Refer to the following.

Size: 2.5 to 10 mm (0.1 to 3/8 inch)



Size: 15 to 200 mm (1/2 to 8 inch)



Measurable electrical conductivity

10 μS/cm or greater

50 μS/cm or greater (10 mm (3/8 inch), 15 mm (1/2 inch) for remote type)

Measurement flow range

:	Size		velocity range is 0 to 0.98 ft/s)		Maximum flow velocity range is 0 to 10 m/s (0 to 32.8 ft/s)					
		Minimu	m range	Maximu	m range	factor K				
mm	inches	m ³ /h	GPM	m ³ /h	GPM					
2.5	0.1	0 to 0.00531	0 to 0.02335	0 to 0.1767	0 to 0.778	56.59				
5	0.2	0 to 0.02121	0 to 0.09337	0 to 0.7068	0 to 3.112	14.15				
10	3/8	0 to 0.08483	0 to 0.3735	0 to 2.827	0 to 12.44	3.537				
15	1/2	0 to 0.1909	0 to 0.8404	0 to 6.361	0 to 28.00	1.572				
25	1	0 to 0.5302	0 to 2.335	0 to 17.67	0 to 77.80	0.5659				
40	1-1/2	0 to 1.358	0 to 5.976	0 to 45.23	0 to 199.1	0.2210				
50	2	0 to 2.121	0 to 9.337	0 to 70.68	0 to 311.2	0.1415				
65	2-1/2	0 to 3.584	0 to 15.78	0 to 119.4	0 to 525.9	0.08371				
80	3	0 to 5.429	0 to 23.91	0 to 180.9	0 to 796.7	0.05526				
100	4	0 to 8.483	0 to 37.35	0 to 282.7	0 to 1244	0.03537				
150	6	0 to 19.09	0 to 84.04	0 to 636.1	0 to 2800	0.01572				
200	8	0 to 33.93	0 to 149.4	0 to 1130	0 to 4979	0.008842				

Velocity $V(m/s) = K \times Q$

 $K = Conversion factor = 1/3600 \times 4/(\pi D^2) \times 1000^2$, D = Size (mm), $Q = Flow rate (m^3/h)$

PERFORMANCE SPECIFICATIONS

Analog output accuracy

Size: 2.5, 5 mm (0.1, 0.2 inch)

Vs = velocity of setting range (m/s)

Vs (m/s)	Velocity during measurement ≥ Vs×50%	Velocity during measurement ≤ Vs×50%
$1.0 \le Vs \le 10$	±0.5% of rate	±0.5% of Vs
$0.3 \le \text{Vs} \le 1.0$	$\pm \frac{0.5}{\text{Vs}}$ % of rate	$\pm 0.5 + \left(\frac{0.5}{\text{Vs}}\right)\% \text{ of Vs}$

Size: 10, 15 mm (3/8, 1/2 inch)

Vs = velocity of setting range (m/s)

Vs (m/s)	Velocity during measurement ≥ Vs×40%	Velocity during measurement ≤ Vs×40%
$1.0 \le Vs \le 10$	±0.5% of rate	±0.5% of Vs
$0.3 \le \text{Vs} \le 1.0$	$\pm \frac{0.5}{Vs}$ % of rate	$\pm 0.4 + \left(\frac{0.5}{\text{Vs}}\right)\% \text{ of Vs}$

Size: 25 to 200 mm (1 to 8 inches)

Vs = velocity of setting range (m/s)

Vs (m/s)	Velocity during measurement ≥ Vs×30%	Velocity during measurement ≤ Vs×30%
$1.0 \le Vs \le 10$	±0.5% of rate	±0.5% of Vs
$0.3 \le \text{Vs} \le 1.0$	$\pm \frac{0.5}{\text{Vs}}$ % of rate	$\pm 0.3 + \left(\frac{0.5}{\text{Vs}}\right)\% \text{ of Vs}$

Accuracy is guaranteed by the totalized flow volume under the condition of continuous flow measurement for 30 seconds or longer.

PHYSICAL SPECIFICATIONS

Converter case finishing

Standard

Baked acrylic paint

Corrosion-proof

Baked epoxy paint

Converter case material

Aluminum alloy

Display cover material

Tempered glass

Terminal box finishing (Model MTG18B only)

Standard: Baked acrylic paint

Corrosion-proof: Baked epoxy paint

Terminal box material (Model MTG18B only)

Aluminum alloy

Detector main body materials

Case material

Size 2.5 to 15 mm (0.1 to 1/2 inch):

SCS13 stainless steel

Size 25 to 200 mm (1 to 8 inches):

SUS304 stainless steel

Measuring pipe material

SUS304 stainless steel

Flange

SUS304 stainless steel

(size 2.5 to 65 mm (0.1 to 2-1/2 inches))

Carbon steel + corrosion-preventive painting

(size 80 to 200 mm (3 to 8 inches))

Process wetted materials

Lining: PFA

Electrodes

SUS316L, ASTM B574 (Hastelloy C-276 equivalent), Titanium, Tantalum, Nickel, Zirconium, Platinum-Iridium

Grounding rings

SUS316, SUS316L, ASTM B575 (Hastelloy C-276 equivalent).

Titanium, Tantalum, Zirconium, Platinum

INSTALLATION

Electrical connection

1/2NPT internal thread (must be selected for FM approval) CM20 internal thread G1/2 internal thread

Remote converter mounting

Wall mounting, 2-inch pipe mounting

Grounding

The grounding is essential for flow measurement.

The most effective grounding method is direct connection to earth ground with minimal impedance.

For approval selection code "1", to maintain Intrinsic safety of system connect conductor to earth ground so that it has less than 1 Ohm to earth ground. See ANSI/ISA RP12.06.01 Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations for guidance on installation of intrinsically safe apparatus and systems.

Pipe connection

Wafer style (Size: 25 to 100 mm (1 to 4 inches)) Flange style (Size: 2.5 to 200 mm (0.1 to 8 inches))

Length of straight pipe

Required straight pipe length clearance on the upstream side and the downstream side, while installing the detector.

Upstream side

A minimum 5D straight pipe length is required. A minimum 10D straight pipe length is required if a diffuser/valve/pump is installed upstream side.

Downstream side

2D straight pipe length is recommended. (Where D is the nominal bore diameter of the detector)

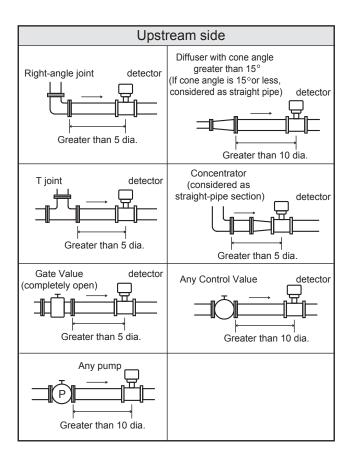


Figure 1. Length of straight pipe

Cable between converter and detector

(Remote type)

Length

70 m (233 ft) or shorter (25 mm (1 inch) to 200 mm (8 inches)) 30 m (98 ft) or shorter (10 mm (3/8 inch), 15 mm (1/2 inch))

Outside diameter

11.4 mm (0.45 inch)

Maximum cable length of SMC11 cable

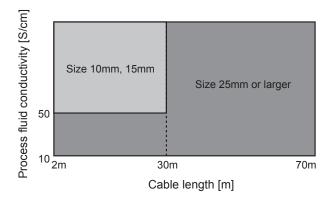


Figure 2. Maximum cable length of SMC11 cable

Notice for installation

To fully enjoy the performance of the device, please choose an appropriate location according to the following.

Notice after installation

⚠ WARNING

When removing the device from the piping, make sure that there is no line pressure or process fluid inside of the device. Removing the device before depressurizing may result in serious injury.

⚠ CAUTION

Do not use the device as a foothold. It may cause injury or damage of the device.

Notice for environment

- Install the flowmeter in a location with an ambient temperature of -25 °C to 60 °C (-13 °F to 140 °F) and an ambient humidity of 5 to 100%RH to prevent equipment malfunction or output errors.
- Do not install the flowmeter in a location subject to severe vibration or in a highly corrosive atmosphere. The converter and detector can be damaged. * When install some electromagnetic flowmeters in closer location, keep minimum 500 mm (20 inch) space from each flowmeter. Closer electromagnetic flowmeter installation may cause magnetic interference each other and results in output errors.
- Do not install the flowmeter in a location subject to severe vibration or in a highly corrosive atmosphere. The converter and detector can be damaged.
- When install some electromagnetic flowmeters in closer location, keep minimum 500 mm (20 inch) space from each flowmeter. Closer electromagnetic flowmeter installation may cause magnetic interference each other and results in output errors.

Notice for application

• Electrolytic bath application, process fluid with higher voltage/current

Process fluid of the electrolytic bath application is mostly with high voltage/current.

It is not a suitable application for the two wire loop powered magnetic flowmeter.

Example: Sodium hypochlorite with 200V and 30kA Four wire magnetic flowmeter is recommended.

- Application which pipe frequently becomes empty
 Both two wire magnetic flowmeter and four wire magnetic
 flowmeter have empty pipe detection function. The two
 wire magnetic flowmeter detects empty by monitoring signal fluctuation caused by empty pipe condition.
 Therefore the empty pipe detection function of the two
 wire magnetic flowmeter sometimes does not work
 properly if noise level is too low or too high. The four
 wire magnetic flowmeter detects empty by monitoring
 impedance between electrodes and grounding. So the four
 wire magnetic flowmeter directly monitors the empty pipe
 condition. If the application requires empty detection
 quickly and perfectly, the four wire magnetic flowmeter is
 recommended.
- Plastic piping or piping with liner
 If the customer piping is plastic or lined with insulation material, process fluid may not be properly grounded. In such case, it is recommended to connect earth wire between upstream side grounding ring and downstream side grounding ring for better grounding.
- Slurry application
 Process fluid with slurry exceeds 3% is not suitable for the two wire magnetic flowmeter. The four wire magnetic flowmeter is recommended for the fluid with slurry concentration more than 3%.
 - If hard particles hit the electrode, output of the two wire magnetic flowmeter may fluctuate even though the slurry concentration is less than 3%. In this case, the four wire magnetic flowmeter is recommended.
- Electrochemically homogeneous fluid Install the device where the process fluid is electrochemically homogeneous. If two kind of process fluids are mixed at the upstream side, the process fluid must be uniformly mixed.
- The application which the electric conductivity changes or non-homogeneous fluid Do not use the device for the following fluid conditions even if the electric conductivity, temperature, and pressure are within the device specifications. Those fluid may cause of inaccurate flow measurement.
 - Fluids that have sufficient conductivity at high temperature but do not meet the conductivity requirement at room temperature (about 20°C (68°F)).

(e.g. fatty acids and soap)

- Some fluids contain surfactant
 (e.g. rinse, shampoo and CWM (coal water mixture))
- Insulating adhesive materials
 (e.g. kaolinite, kaolin, calcium stearate)

- The analog output may fluctuate due to flow noise, which is generated by the process fluid flow. In such a case, connect the upstream grounding ring to the downstream grounding ring by a wire. The output fluctuation may be reduced.
- The following fluids will permeate the PFA liner. The vent hole option is recommended for the following fluids.
 - Nitric acid
 - Aqueous ammonia
 - High temperature sodium hydrate

Caution On PLC Connection

A circuit in some PLC may affect the flow measurement and the analog output may fluctuate.

In this case, make sure that the both PLC and the MagneW Two-wire PLUS+ flowmeter are properly grounded. Proper grounding solves the fluctuation problem.

Notice for power supply

- Use the following power supply. If the power supply does not meet the following specifications, this device may not work.
 - Current capacity: 24mA min.

⚠ CAUTION

In accordance with the safety standards of flameproof regulation, please comply with the following instructions.:

- (1) The voltage of general equipment such as the power supply and the receiver should not exceed 250VAC, 50/60Hz, 250VDC at any time at normal or abnormal operation.
- (2) The ambient temperature around the device is 50 °C (122 °F) maximum.
- (3) The process fluid temperature is $125 \, ^{\circ}\text{C}$ ($257 \, ^{\circ}\text{F}$) max. for the size of 15 mm (1/2 inch) or larger.
- (4) The process fluid temperature is $100 \, ^{\circ}\text{C}$ (212 $^{\circ}\text{F}$) max. for the size of 10 mm (3/8 inch) or smaller.
- (5) Use the specified flameproof cable glands.
- (6) Wait for seven minutes after switching OFF the power supply, before opening the front cover or the terminal cover.

A specified explosion-proof performance is available only when this device is used under the conditions described above.

MODEL SELECTION

MagneW Two-wire PLUS+

Model MTG18A - I II III IV V VI VII VIII IX X XI - XII XIII - Options (some options can be selected per each model)

Bas	sic model no.	_	Sele	ectio	ons	_		_			_		Op	tion	al	sele	ctio	ns	Opti	ons	<u>:</u>				
	MTG18A	<u> </u>												٠.			-								
		I																							
I	Line size	2.5 mm (0.1 inch) (flange type only)	002	*1														X	None						Options
		5 mm (0.2 inch) (flange type only)	005	*1														В	_			ificale			Opt
		10 mm (3/8 inch) (flange type only)	010	*1														С			ertific g ring)		ectrode	/	
		15 mm (0.5 inch) (flange type only)	015	*1															-						_
		25 mm (1 inch)	025															G	Gask	et for	plasti	ic pipii	ng		
		40 mm (1-1/2 inches)	040																						_
		50 mm (2 inches)	050															K	housi		ng on	the co	nverter *3		
		65 mm (2-1/2 inches)	065																		1	1	wired t		_
		80 mm (3 inches) 100 mm (4 inches)	080 100															L	the fl			r plate	*6	:0	
			150																1						
		150 mm (6 inches) (flange type only) 200 mm (8 inches) (flange type only)	200																						
II	Lining	PFA	200	P	-									- 1	X	Finish	. /	Stan	dard pa	aint					XI
	Pipe connection	Wafer JIS10K		1	11	ł								H		paint	1 /	-	osion-		f pain	t t			_ A1
111	i pe connection	Wafer JIS16/20K			12	l								L	-			COL	031011	proo.	ı pairi				
		Wafer JIS30K			13	1									ŀ	Х	Bolt :	nd	None						XII
		Wafer ANSI 150			21										ŀ		nut	iiid	\vdash		nly fo	r wafe	r type)		- 1
		Wafer ANSI 300			22										L	2			13033	0) 400	niiy io	n waic	r type)		
		Wafer DIN PN10			41																				
		Wafer DIN PN16			41																				
		Wafer DIN PN25			43																				
		Flange JIS10K			43 J1																				
					J1 J2																				
		Flange JIS20K			J2 J3																				
		Flange JIS30K		*2	-																				
		Flange JIS10K for 10 mm size flange Flange JIS20K for 10 mm size flange		*2	J4 J5																				
				.7	A1																				
		Flange ANSI 150																							
		Flange ANSI 300			A2 D1	-																			
		Flange DIN PN10			_																				
		Flange DIN PN16			D2	-																			
13.7	Elastes da	Flange DIN PN25			D3	T																			
IV	Electrode	SUS316L ASTM P574 (Hostelley C. 276 equivalent	`			C																			
		ASTM B574 (Hastelloy C-276 equivalent																							
		Titanium				K H																			
		Zirconium				Т																			
		Tantalum				N																			
		Nickel Distinum iridium				N P																			
17	Crounding	Platinum-iridium				Р	c	-																	
V	Grounding ring	SUS316	`				S	-																	
		ASTM B575 (Hastelloy C-276 equivalent	,				K	1																	
		Titanium					H	-						_											
		Zirconium					Т	-						Di	spla	y dire	ectio	n coc	de "A"	<u>D</u>	ispla	y dire	ction c	ode "E	_
		Tantalum					P	-								_	굔	<u>~Др</u>	ь				/	Displ	lay
		Platinum SUS316L					r r	1								ہے ل			Ų		VZZ				
171	TATining a series						L	Α.						l	irect	-			}		Direc	tion	L		
VI	Wiring connection	G1/2 internal thread with plastic water to	ab+ -1	nd.				A B						٦	of flo	34/			}		of flo	,w [L	_Д	
		G1/2 internal thread with plastic water to G1/2 internal thread with brass Ni-plated			ol 1			_										~ Di	splay				<u> </u>	TU	
							*4	C							or!	.,			ام ا <i>ا</i> ما		No	۰۰ الم ر	ati	- "-	\"
		1/2NPT internal thread (must be selected CM20 internal thread	1 101 1	ıvı apţ	proval		4	E							spia	y aire	CIIOI	1 000	de "C"	ט	иѕріа	y aire	ction c	ode "E	_
			ort: -1	+ 01	de			_								. 6	+		Disp	olay	Disp	olay p		F	
		G1/2 internal thread with two plastic wa				lor J		J								. 4			*			ا حر		K	
VIII	Eaca to form	G1/2 internal thread with two brass Ni-p	raced v	watert	ignt g	and		K	A					P	irect of flo	ion E	Ш	_	H		Direc	tion t			
VII	Face-to-face dimension	Standard	- 40 -	- 100					A					'	J. 11U	••					of flo			Ш	
****		Replacement for SMT3000 (for wafer typ							S	\dashv															
VIII	Installation /	Horizontal piping / Right side viewed from			1					A				Di	spla	y dire	ectio	n coc	de "E"	D	ispla	y dire	ction c	ode "F	-
	Display direction	Horizontal piping / Left side viewed from	ı upstı	ream						В							47	7	1			 - 	n 🗔		
		Horizontal piping / Downstream side							\dashv	С					-		[]				ζ				
		Horizontal piping / Upstream side								D					E11		1		DI						JA
		Vertical piping / Right side of piping / Fl						1	\dashv	E				`	Y		III.	4	Direc	ction	<u>_</u>	╨┷┷	ш 📂		rection
wr-	0.14	Vertical piping mounting / Left side of p	ping /	Flow	direct	ion: U	pware	1		F				L					of fle	low				0	f flow
IX	Calibration	Standard									J	ᆜ												_	
X	Output /	Volume flow 4-20mA DC output/with Sl		nmun	ıcatio	n					_	Е		No									!5 mm j	tlange.	
	communication	Volume flow DE output/with communic										D							ze 2.5 t d if tag				:		
		Volume flow 4-20mA DC output with H	ART c	ommı	unicat	ion						T							a ij iag proval			· · · · · · · · · · · · · · · · · · ·			
XI	Approval/	None											X		*5	: Mus	t sele	ct "W	iring co	onnec	ction I				
	Certification	FM approval, Class I, II, III, Division 1, C										*5	1		*6		option is "X		iot app	licabi	le exce	pt if th	ie appro	oval/cer	tificatio
		CSA certification, Class I, II, III, Division										-				code	is X								
		FM approval, NI for Class I, II, III, Divis CSA certification, Class I, II, III, Division										*5	2												
			12, Gľ	Jups F	1, D, C	, ν, Ε	, r & (J, 14		-															
		ATEX Type nA certification NEPSI Increased safety Ex ec IIC T4 to T	'6 C -									-	6												
	I .																								

MagneW Two-wire PLUS+ Wafer/Flange remote type converter

Model MTG14C - I II III IV - Options (some options can be selected per each model)

Basic 1	nodel no.		Selecti	ions			О	ptions
	MTG14C						-	
I	Analog output /	Volume flow 4-20 mA DC output / with SFC communication	Е					
	communication	Volume flow DE output / with communication	D					
		Volume flow 4-20 mA DC output / with HART communication	Т					
II	Wiring connection	G1/2 internal thread		A				
		G1/2 internal thread with a plastic water-tight gland		В				
		G1/2 internal thread with a brass Ni-plated water-tight gland		С				
		1/2NPT internal thread		D				
		CM20 internal thread		Е				
		G1/2 Internal Thread/two-Plastic Watertight Glands applying		J				
		G1/2 Internal Thread/two-Brass Ni plated Watertight Glands apply	ring	K				
III	Converter mounting	Wall mounting with standard bracket			G			
		2-inch pipe mounting with standard bracket			Н	1		
IV	Approval	None				X		
		FM approval, Class I, II, III, Division 2, Groups A, B, C, D, F & G, CSA certification, Class I, II, III, Division 2, Groups A, B, C, D, E, I		Γ4	*2	2		
							-	
V	Option	None						X
		Traceability certificate						В
		With the Tag number plate on the converter housing					*1	K
		Corrosion-proof paint						2

Note) *1: Must be selected if tagging is required.

MagneW Two-wire PLUS+ Wafer/Flange remote type cable

Model SMC11 - I II III

Basic 1	nodel no.		Selecti	ions	
	SMC11	<u> </u>			
I	Cable	2 m (6 feet 8 inches)	02		
		3 m (10 feet)	03		
		4 m (13 feet 4 inches)	04		
		5 m (16 feet 8 inches)	05		
		10 m (33 feet 4 inches)	10		
		15 m (50 feet)	15		
		20 m (66 feet 8 inches)	20		
		30 m (100 feet)	30		
		40 m (133 feet 4 inches)	40		
		50 m (166 feet 8 inches)	50		
		60 m (200 feet)	60		
		70 m (233 feet 4 inches)	70		
II	Terminals for detector	With terminals		A	
III	Terminals for converter	With terminals			A

^{*2:} Must select "Wiring connection D".

MagneW Two-wire PLUS+ Wafer/Flange remote type detector

Model MTG18B - I II III IV V VI VII VIII IX - Options (some options can be selected per each model)

Basi	c model no.		Sele	ction	ıs						
	MTG18B										
	WITGIOD										
I	Diameter	10 mm (3/8 inch)	010								
1	Diameter	15 mm (1/2 inch)	015								
		25 mm (1 inch)									
		` '	025								
		40 mm (1-1/2 inches)	040								
		50 mm (2 inches)	050								
		65 mm (2-1/2 inches)	065								
		80 mm (3 inches)	080								
		100 mm (4 inches)	100								
		150 mm (6 inches)	150								
		200 mm (8 inches)	200								
II	Lining	PFA		P							
III	Pipe connection	Wafer JIS10K			11						
	connection	Wafer JIS16/20K			12						
		Wafer JIS30K			13						
		Wafer ANSI 150			21						
		Wafer ANSI 300			22						
		Wafer DIN PN10			41						
		Wafer DIN PN16			42						
		Wafer DIN PN25			43						
		Flange JIS10K			J1						
		Flange JIS20K			J2						
		Flange JIS30K			J3						
		Flange JIS10K for 10 mm size flange			J4						
		Flange JIS20K for 10 mm size flange			J5						
		Flange ANSI 150			A1						
		Flange ANSI 300			A2						
		Flange DIN PN10			D1						
		Flange DIN PN16			D2						
		Flange DIN PN25			D3						
IV	Electrode	SUS316L				L					
		ASTM B574 (Hastelloy C-276 equiva	lent)			С					
		Titanium				K					
		Zirconium				Н					
		Tantalum				Т					
		Nickel				N					
		Platinum-iridium				P					
V	Grounding	SUS316					S				
	ring	ASTM B575 (Hastelloy C-276 equiva	lent)				С				
		Titanium					K				
		Zirconium					Н				
		Tantalum					Т				
		Platinum					P				
		SUS316L					L				
VI	Wiring	G1/2 internal thread						A			
	connection	G1/2 internal thread with plastic wat						В			
		G1/2 internal thread with brass Ni-p	lated	watei	-tigh	t glar	nd	С			
		1/2NPT internal thread						D			
¥		CM20 internal thread						Е			
VII	Face-to-face dimension	Standard							A		
		Azbil Corporation's SMT3000 wafer	type						S		
	Calibration	Standard calibration								J	
IX	Approval/	None									X
	Certification	FM approval, NI for Class I, II, III, D	ıvisio	n 2,							
		Groups A, B, C, D, F & G, T4 CSA certification, Class I, II, III, Div	ision	2,						*3	2
		Groups A, B, C, D, E, F & G, T4									

Options

X	None	suc
В	Traceability certificate	Options
С	Material certificate (electrode/ grounding ring)	0
G	Gasket for plastic piping	
K	With the Tag number plate on the terminal box *1	
2	Corrosion-proof paint	
4	Attached stainless steel 304 bolts and nuts for installation *2	

Note)

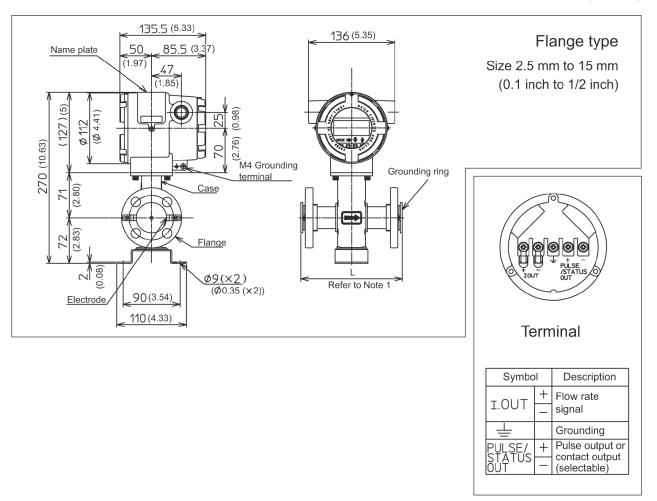
- $^*1: Must \ be \ selected \ if \ tagging \ is \ required.$
- *2: Available for wafer type.
- $^*3: Must \ select \ ``Wiring \ connection \ D".$

DIMENSIONS

All dimensions are in millimeters, dimensions in brackets () are in inches (inch).

Model MTG18A - Flange type size 2.5 mm (0.1 inch) to 15 mm (1/2 inch)

(Unit:mm (inch))



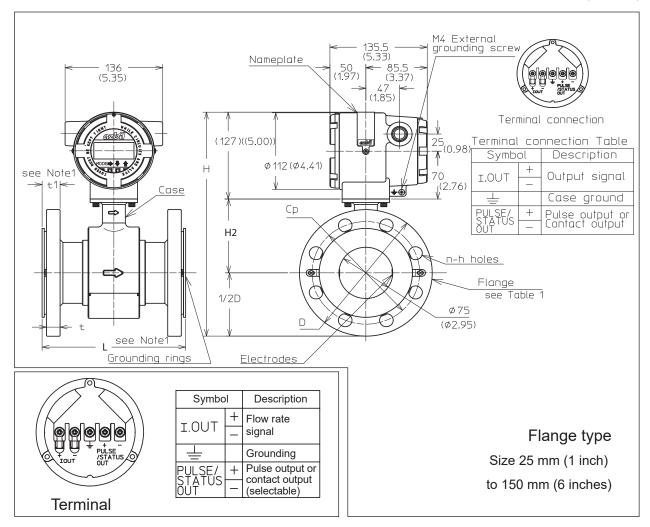
Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

Table 2.

	Model no	Model no. J1 J2 J3				J4	J5	A1	A2	D1/D2	D3/D4
Size mm (inch)					JIS		AN	DIN			
	Flange rati	10K	20K	30K	10K 10 mm flange	20K 10 mm flange	150	300	PN 10/16	PN 25/40	
2.5 to 10	Dimension L		160	160	160	160	160	160 (6.3)	160 (6.3)	160	160
(0.1 to3/8)	Weight (kg)		6.8	7	8	6.7	6.8	6.4 (14.1 lb)	6.9 (15.2 lb)	6.9	7.1
15	Dimension L 20		200	200	200	-	-	200 (7.87)	200 (7.87)	200	200
(1/2)	Weight (kg		6.8	6.8	6.8	-	-	6.4(14.1 lb)	6.9(15.2 lb)	6.9	7.1

Model MTG18A - Flange type size 25 mm (1 inch) to 150 mm (6 inches)

(Unit:mm (inch))



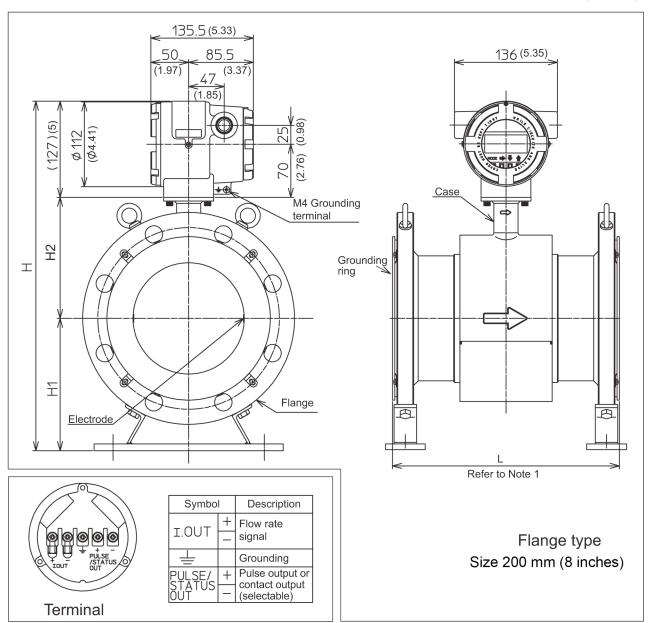
Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

Table 3.

6.	Model no).	J1	J2	J3	A1	A2	D1/D2	D3/D4	
Size mm (inches)	EI			JIS		AN	NSI	D	IN	
(inches)	Flange rati	ng	10K	20K	30K	150	300	PN 10/16	PN 25/40	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
	Dimanaian	Н	267	267	269	258 (10.16)	266 (10.47)	262	262	
25 (1)	Dimension	D	125	125	130	110 (4.33)	125 (4.92)	115	115	
(1)		H2	77	77	77	77 (3.03)	77 (3.03)	77	77	
	Weight	(kg)	9.2	9.5	10.3	8.6 (18.96 lb)	9.6 (21.16 lb)	9.1	9.4	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
	D:	Н	281	281	291	273.5 (10.77)	288.5 (11.36)	286	286	
40 (1.5)	Dimension	D	140	140	160	125 (4.92)	155 (6.10)	150	150	
		H2	84	84	84	84 (3.31)	84 (3.31)	84	84	
	Weight	(kg)	8.3	8.6	11.0	7.9 (17.41 lb)	10.3 (22.71 lb)	8.7	9.7	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
50	D:	Н	297.5	297.5	302.5	295 (11.61)	302.5 (11.91)	302.5	302.5	
50 (2)	Dimension	Dimension	D	155	155	165	150 (5.91)	165 (6.5)	165	165
(2)		H2	93	93	93	93 (3.66)	93 (3.66)	93	93	
	Weight	(kg)	11.9	12.0	13.7	12.4 (27.34 lb)	13.9 (30.64 lb)	13.3	13.8	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
	Dimension	Н	314.5	314.5	327	317 (12.99)	322 (13.31)	319.5	319.5	
65 (2.5)		D	175	175	200	180 (7.09)	190 (7.48)	185	185	
(2.5)		H2	100	100	100	100 (3.94)	100 (3.94)	100	100	
	Weight	(kg)	13.9	14.0	15.7	14.7 (32.4 lb)	15.2 (33.51 lb)	15.3	15.8	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
	Dimanaian	Н	327.5	335	340	330 (13.62)	340 (14.13)	335	335	
80 (3)	Dimension	D	185	200	210	190 (7.48)	210 (8.27)	200	200	
(5)		H2	108	108	108	108 (4.25)	108 (4.25)	108	108	
	Weight	(kg)	14.4	16.7	20.4	17.6 (38.8 lb)	20.4 (44.97 lb)	14.4	16.5	
		L	250	250	250	250 (9.84)	250 (9.84)	250	250	
400	Dimanaian	Н	352.5	360	367.5	362.5 (14.27)	375 (14.76)	357.5	365	
100 (4)	Dimension	D	210	225	240	230 (9.06)	255 (10.04)	220	235	
(4)		H2	120.5	120.5	120.5	120.5 (4.74)	120.5 (4.74)	120.5	120.5	
	Weight	(kg)	20.2	23.7	28.6	25.2 (56.60 lb)	34 (74.96)	19.6	23.4	
		L	300	300	300	300 (11.81)	300 (11.81)	300	300	
	Dimanaian	Н	427	439.5	449.5	427 (16.81)	447 (17.6)	429.5	437	
150 (6)	Dimension	D	280	305	325	280 (11.02)	320 (12.6)	285	300	
(0)		H2	160	160	160	160 (6.3)	160 (6.3)	160	160	
	Weight	(kg)	32.4	39.7	52.3	34.6 (76.3 lb)	52.1 (114.9 lb)	28.7	36.6	

Model MTG18A - Flange type size 200 mm (8 inches)

(Unit:mm (inch))



Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

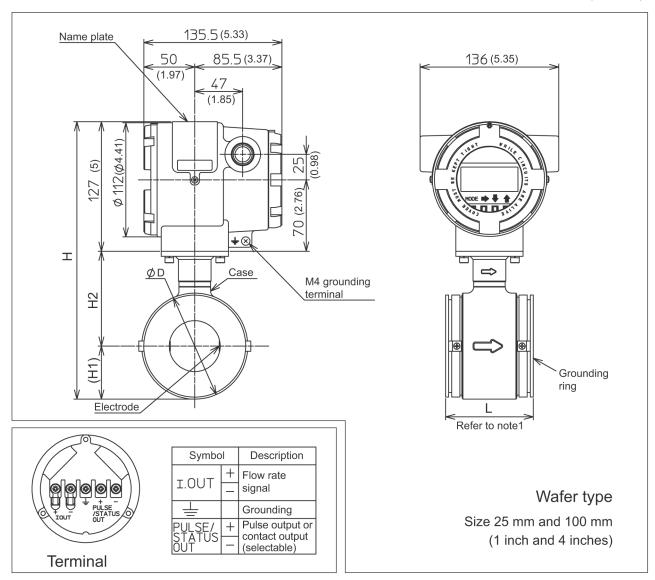
Table 4.

<u></u>	Model no	Model no.		J2	J3	A1	A2	D1/D2	D3	D4	
Size mm (inches)	Flange rati	FI .:		JIS		AN.	NSI	DIN			
(ITICITES)	(inches) Flange rat		10K	20K	30K	150	300	PN 10/16	PN 25	PN40	
	Dimension	L	350	350	350	350 (13.78)	350 (13.78)	350	350	350	
200		Н	508	515	531	516 (20.31)	537 (21.14)	514	526	534	
200 (8)		Dimension	H1	196	203	219	204 (8.03)	225 (8.86)	202	214	222
(6)		H2	185	185	185	185 (7.28)	185 (7.28)	185	185	185	
	Weight	(kg)	49.8	59.8	87	61.8 (136.2 lb)	90.8 (200.2 lb)	48.1	68.5	72	

Model MTG18A

- Wafer type size 25 mm (1 inch) to 100 mm (4 inches)

(Unit:mm (inch))



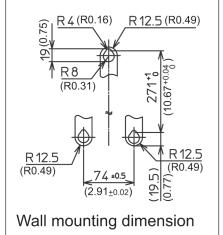
Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

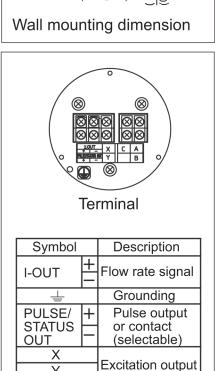
Table 5.

Iubic 5.													
Flange rating		25 mm (1 inch)	40 mm (1-1/2 inch)		50 mm (2 inches)		65 mm (2-1/2 inches)	80 mm (3 inches)		100 mm (4 inches)			
Face-to-face dimension code		А	Α	S	Α	S	А	Α	S	Α	S		
	L	94 (3.7)	80 (3.15) 98 (3.86)		86 (3.39)	104 (4.09)	96 (3.78)	106 (4.17)	130 (5.12)	120 (4.72)	150 (5.91)		
Dimension	Н	238 (9.37)	254.5 (10.02)		272 (10.71)		289 (11.38)	302 (11.89)		327 (12.87)			
size	H1	34 (1.34)	43.5 (1.71)		52 (2.05)		62 (2.44)	67 (2.64)		79.5 (3.13)			
	H2	77 (3.03)	84 (3.31)		93 (3	93 (3.66)		108 (4.25)		120.5 (4.74)			
	D	68 (2.68)	87 (3.43)		104 (4.09)	124 (4.88)	134 (5.28)		159 (6.26)			
Weight	(kg)	3.7 (8.2 lb)	3.8 (8.4 lb)	4.3 (9.5 lb)	4.4 (9.7 lb)	5.0 (11.0 lb)	5.5 (12.1 lb)	6.4 (14.1 lb)	7.1 (15.7 lb)	8.2 (18.1 lb)	9.2 (20.3 lb)		

Model MTG14C - Converter

(Unit:mm (inch))

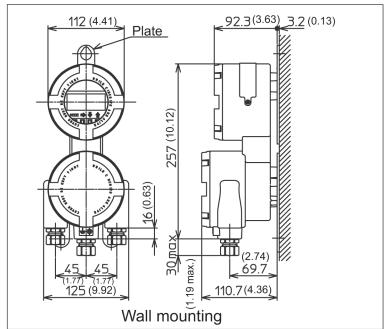


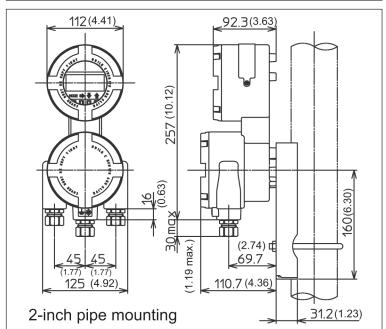


Flow rate

signal input

* Terminal screw: M4



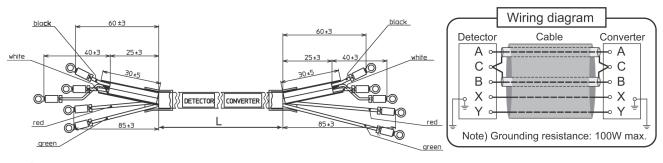


Model SMC11 - Cable

Α

В

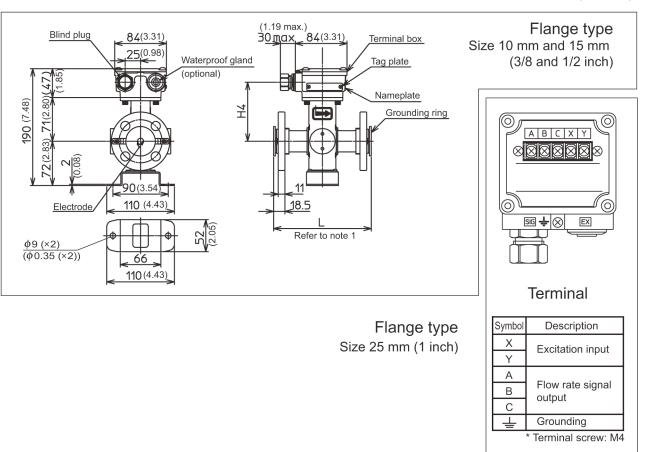
С



L: Cable length

Model MTG18B - Detector - Flange type size 10 mm (3/8 inch) and 15 mm (1/2 inch)

(Unit:mm (inch))



Note 1 • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

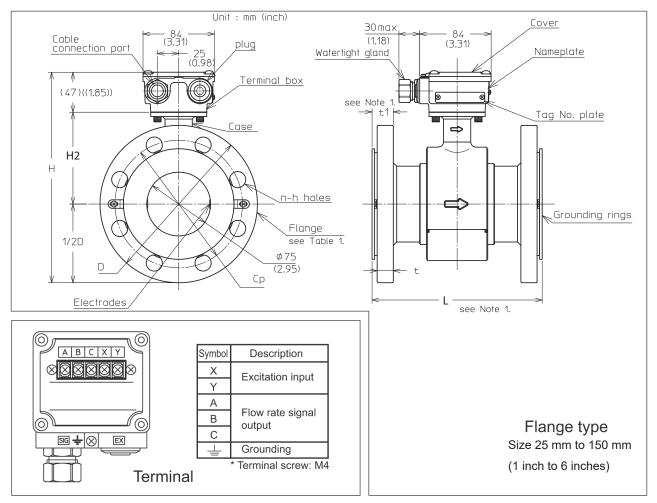
Table 6.

	Model no.		J1	J2	J3	J4	J5	A1	A2	D1/D2	D3/D4
Size mm						JIS	AN	ISI	DIN		
(inches)	Flange rating		10K	20K	30K	10K 10 mm flange	20K 10 mm flange	150	300	PN 10/16	PN 25/40
10	Dimension	L	160	160	160	160	160	160 (6.3)	160 (6.3)	160	160
(3/8)	Weight	(kg)	5	5.2	6.2	4.9	5	4.6 (10.1 lb)	5.1 (11.2 lb)	5.1	5.3
15	Dimension	L	200	200	200	200	200	200 (7.87)	200 (7.87)	200	200
(1/2)	Weight (kg)		5.2	5.4	6.4	5.1	5.2	4.8 (10.6 lb)	5.3 (11.7 lb)	5.3	5.5

No. SS2-MTG300-0100 Azbil Corporation

Model MTG18B - Detector - Flange type size 25 mm (1inch) to 150 mm (6 inches)

(Unit:mm (inch))



Note) 1. •When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

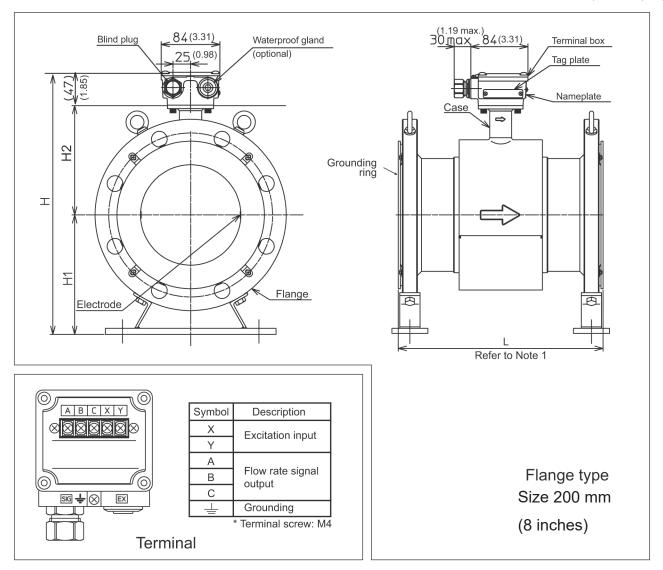
Table 7.

C!	Model n	10.	J1	J2	J3	A1	A2	D1/D2	D3/D4	
Size mm (inches)	Flange rat	tina		JIS		1A	NSI	DIN		
(IIICIIC3)	riange rai	ung	10K	20K	30K	150	300	PN 10/16	PN 25/40	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
25	Dimension	Н	187	187	189	178 (7.01)	186 (7.32)	182	182	
25 (1)	Difficusion	D	125	125	130	110 (4.33)	125 (4.92)	115	115	
(1)		H2	77	77	77	77 (3.03)	77 (3.03)	77	77	
	Weight	(kg)	9.2	9.5	10.3	8.6 (18.96 lb)	9.6 (21.16 lb)	9.1	9.4	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
40	Dimension	Н	201	201	211	193.5 (7.62)	208.5 (8.21)	206	206	
40 (1.5)	Difficusion	H1	140	140	160	127 (5.00)	155 (6.10)	150	150	
(1.5)		H2	84	84	84	84 (3.31)	84 (3.31)	84	84	
	Weight	(kg)	8.3	8.6	11.0	7.9 (17.41 lb)	10.3 (22.71 lb)	8.7	9.7	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
50 (2)	Dimension	Н	217.5	217.5	222.5	215 (8.46)	222.5 (8.76)	222.5	222.5	
	Dimension	D	155	155	165	150 (5.91)	165 (6.5)	165	165	
(2)		H2	93	93	93	93 (3.66)	93 (3.66)	93	93	
	Weight	(kg)	11.9	12.0	13.7	12.4 (27.34 lb)	13.9 (30.64) lb	13.3	13.8	
			200	200	200	200 (7.87)	200 (7.87)	200	200	
	Dimension	Н	234.5	234.5	247	237 (9.33)	242 (9.53)	239.5	239.5	
65 (2.5)	Difficusion	D	175	175	200	180 (7.09)	190 (7.48)	185	185	
(2.5)		H2	100	100	100	100 (3.94)	100 (3.94)	100	100	
	Weight	(kg)	13.9	14.0	15.7	14.7 (32.4 lb)	15.2 (33.51 lb)	15.3	15.8	
		L	200	200	200	200 (7.87)	200 (7.87)	200	200	
00	Dimension	Н	247.5	255	260	250 (10.24)	260 (10.98)	255	255	
80 (3)	Difficusion	D	185	200	210	190 (7.48)	210 (8.27)	200	200	
(3)		H2	108	108	108	108 (4.25)	108 (4.25)	108	108	
	Weight	(kg)	14.4	16.7	20.4	17.6 (38.8 lb)	20.4 (44.97 lb)	14.4	16.5	
		L	250	250	250	250 (9.84)	250 (9.84)	250	250	
100	Dimension	Н	272.5	280	287.5	282.5 (11.12)	295 (11.61)	277.5	285	
100 (4)	Difficusion	D	210	225	240	230 (9.06)	255 (10.04)	220	235	
(-1)		H2	120.5	120.5	120.5	120.5 (4.74)	120.5 (4.74)	120.5	120.5	
	Weight	(kg)	20.2	23.7	28.6	25.2 (55.34 lb)	34 (75.4 lb)	19.8	23.4	
		L	300	300	300	300 (11.81)	300 (11.81)	300	300	
150	Dimension	Н	347	359.5	369.5	347 (13.66)	367 (14.45)	349.5	357	
150 (6)	Intension	D	280	305	325	280 (11.02)	320 (12.6)	285	300	
(0)		H2	160	160	160	160 (6.3)	160 (6.3)	160	160	
	Weight (kg)		32.4	39.7	54.3	34.6 (76.28 lb)	52.1 (114.9 lb)	28.7	36.6	

No. SS2-MTG300-0100 Azbil Corporation

Model MTG18B - Detector - Flange type size 200 mm (8 inches)

(Unit:mm (inch))



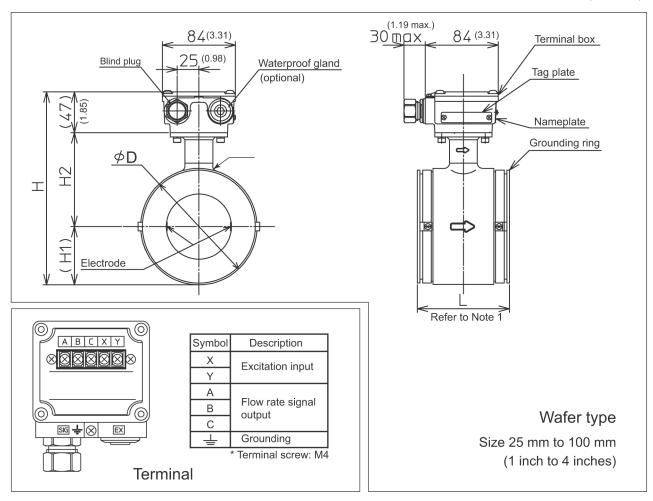
Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

Table 8.

C:	Model no	Model no.		J2	J3	A1	A2	D1/D2	D3	D4
Size mm (inches)	Flange rat	El .:		JIS		AN		DIN		
(IIICIICS)	Flange rat	ing	10K	20K	30K	150	300	PN 10/16	PN 25	PN 40
		L	350	350	350	350 (13.78)	350 (13.78)	350	350	350
	Dimagnaian	Н	428	435	451	436 (17.17)	457 (17.99)	434	446	454
200 (8)	Dimension	H1	196	203	219	204 (8.03)	225 (8.86)	202	214	222
(0)		H2	185	185	185	185 (7.28)	185(7.28)	185	185	185
	Weight	(kg)	48	58	85.2	60 (132.3 lb)	89 (196.2 lb)	46.3	66.7	70.2

Model MTG18B - Detector - Wafer type size 25 mm (1 inch) to 100 mm (4 inches)

(Unit:mm (inch))



Note) 1. • When grounding ring material is SUS316, gasket dimension is not included to the face-to-face dimension.

Table 9.

Flange rating		25 mm (1 inch)	40 mm (1-1/2 inch)		50 mm (2 inches)		65 mm (2-1/2 inches)	80 mm (3 inches)		100 mm (4 inches)	
Face-to-face dimension code		Α	A S		А	S	А	А	S	А	S
	L	94 (3.7)	80 (3.15) 98 (3.86)		86 (3.39)	104 (4.09)	96 (3.78)	106 (4.17)	130 (5.12)	120 (4.72)	150 (5.91)
	Н	158 (6.22)	174.5 (6.87)		192 (7.56)		209 (8.23)	222 (8.74)		247 (9.72)	
Dimension size	H1	34 (1.34)	43.5 ((1.71)	52 (2.05)		62 (2.44)	67 (2.64)		79.5 (3.13)	
3120	H2	77 (3.03)	84 (3.31)		93 (3.66)		100 (3.94)	108 (4.25)		120.5 (4.74)	
	D 68 (2.68) 87 (3.43)		104 (4.09)	124 (4.88)	134 (5.28)	159 (6.26)		
Weight	(kg)	2 (4.4 lb)	2 (4.4 lb)	2.5 (5.5 lb)	2.6 (5.7 lb)	3.2 (7.1 lb)	3.7 (8.2 lb)	4.6 (10.1 lb)	5.3 (11.7 lb)	6.4 (14.1 lb)	7.4 (16.3 lb)

No. SS2-MTG300-0100 Azbil Corporation

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