Specifications

MagneW3000 PLUS⁺

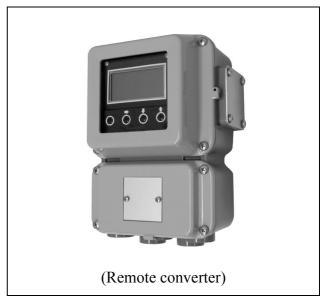
Smart Electromagnetic Flowmeter Converter (Smart model)

Model MGG14C

OVERVIEW

MagneW 3000 PLUS⁺ electromagnetic flowmeter converter is a high-performance and highly reliable flowmeter converter based on Azbil Corporation's proven MagneW 3000 PLUS flow measurement technologies. The MagneW

PLUS⁺ converter offers expanded flow rate measurement capabilities in the various processes when used with the MagneW detectors.



FEATURES

Improved performance and function

- Improved noise immunity performance up to 250 %.
- Averaging function for pulsating flow applications has been added.
- User selectable functionality provides advanced noise immunity technology such as auto spike cut function and excitation frequency change.
- Optional "Fast Response" model for short run batch applications.

Universal power supply

• AC 90 to 130 V, AC 180 to 250 V.

Liquid Crystal Display with backlighting (optional)

- Backlit display eases reading in direct sunlight or poor lightning conditions.
- Simultaneously displays flow volume in percentage, actual flow rate and totalized value.
- Rotating display improves visibility of integral models mounted on pipes up to 90 degrees from standard.

Setting parameters by infrared touch sensor (optional)

- Allows safe setting, in severe environments, without opening the cover.
- Write protect function prevents tampering with converter settings.

Compatibility

 MagneW 3000 PLUS⁺ converter is compatible with all conventional Azbil Corporation's detectors.

CE marking

Conforms to RoHS requirements (restriction of the use of certain hazardous substances in electrical and electronic equipment)

China RoHS

- 1 -

This device is used in the Oil & Gas, Petrochemical, Chemical, Pulp & Paper, Food & Beverage, Machinery, Steel/Metal & Mining, and Automobile industries and therefore does not fall under the China RoHS Legislation.

If this device is used in equipment or applications which fall under the China RoHS, labeling on the device and documents for the China RoHS may be required. If such documents are required, consult an Azbil Corp. representative.

COMMUNICATION (SELECTABLE)

- DE protocol
- HART protocol (HART Rev. 5)

APPLICATIONS

Available for various applications such as:

Pulp and Paper

Pulp slurries, chemicals, green liquor, white water, white liquor, black liquor, corrosive fluid, industrial water, waste water

Petroleum/Petrochemical/Chemicals

Corrosive fluid, electrolyte, dyestuffs, chemicals, industrial water, waste water

Water/Waste water

Tap water, sewage water, sludge, sediment slurries, effluent

Food and Beverage

Beer, milk, juice, wine, liquor, soy sauce, potable water, industrial water, waste water

Steel/Metal and Mining

Alumina slurry, cooling water, sea water, corrosive fluid, industrial water, waste water

Machinery

Corrosive fluid, cooling water, circulating water, waste water

Building/Construction

Building material slurry, sediment slurry, cement, industrial water

Electric Power/Gas

Corrosive fluid, cooling water, industrial water, waste water

FUNCTIONAL SPECIFICATIONS

Type of protection

Enclosure rating

JIS C 0920 Waterproof NEMA TYPE4X IEC IP66

Hazardous area certification:

FM approval

<for Division 2> Nonincendive for Class I, Division 2, Groups A, B, C & D, T5; Class II, Division 2, Groups F & G, T5; Class III, Division 2, T5; $-25 \, ^{\circ}\text{C} \le T_{amb} \le +60 \, ^{\circ}\text{C}$

CSA certification

<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; -25 °C $\leq T_{amb} \leq +60$ °C

Power supply

Normal operating voltage:

AC 100 to 120 V, AC 200 to 240 V, 47 to 63 Hz

Operational voltage limit:

AC 90 to 130 V, AC 180 to 250 V, 47 to 63 Hz

Power consumption

10 W max. (AC 90 to 130 V) 11 W max. (AC 180 to 250 V)

Lightning protection

12 kV, 1000 A

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

Power failure

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

EMC conformity standards

EN61326

Ship classification

Approved by NK (Nippon Kaiji Kyokai)

Approval No.: 11A008

Some model numbers selectable by the model selection table do not meet the requirements for NK approval. Check sections I (power supply) and II (output signal/communication) in the model selection table.

Note: The MGG14C cannot be installed on the bridge or deck of the ship.
In the case of a remote model, the cables between the converter and detector must be covered with a flexible metal conduit.

Input signal

Flow rate signal

Electromotive force which is proportional to the average flow velocity.

Contact input

Solid-state contact or no-voltage contact (2 max.)

Output signal

Analog output

4 to 20 mA DC

Digital output

DE

Analog or digital output is selectable.

Contact output

Open collector (2 max.)

Contact capacity

DC 30 V max., 200 mA max.

Pulse output

Open collector

Contact capacity

DC 30 V max., 200 mA max.

Pulse Frequency

0.00006 to 3000 Hz

Pulse width

adjustable from 0.10 to 999.99 ms or fixed at 50 % of the duty (In case of pulse frequency is 0.00006 to 0.5 Hz, pulse width is fixed at 1sec.) Voltage drop during transistor ON: 2.7 V typ. (Voltage drop can be reduced to 2.0 V by a switch)

Analog output range/load resistance

Without SFC communication

0.8 to 22.4 mA (-20 to +115 %) Load resistance: 0 to 600 Ω

With SFC communication

3.2 to 22.4 mA (-5 to +115 %)

External power supply required for SFC commu-

nication: 16 to 45 V DC

Load resistance (Ω) = (External power supply voltage -8.5 V)/0.025

With HART communication by using Inter-

nal power supply

3.2 to 22.4 mA (-5 to +115 %) Load resistance: 0 to 600 Ω

With HART communication by using an external power supply

3.2 to 22.4 mA (-5 to +115 %)

External power supply required for HART com-

munication: 16 to 45 V DC

Load resistance (Ω) = (External power supply voltage -8.5 V)/0.025

Fast response type/no communication function

0.8 to 22.4 mA (-20 to +115 %) Load resistance: 0 to 600 Ω

Digital output range/load resistance

With DE output

3.2 to 22.4 mA (-5 to +115 %)

External power supply required for DE communi-

cation: 16 to 45 V DC

Load resistance (Ω) = (External power supply

voltage -8.5 V)/0.025

Unit of flow rate

Selectable from %, volumetric flow rate unit, mass flow rate unit, time.

Volumetric flow rate: m^3 , ℓ , cm^3 , B (barrel), G (gallon), kG, mG, IG (imperial gallon),

Mass flow rate: t, kg, g, lb (pound)

Time: d, h, min., s

Note: Selection for non-SI unit, option code "H" must be selected.

Operation Mode

MEASURING MODE:

Mode for flow rate measurement

BASIC SETUP MODE:

Mode for quick start-up

ENGINEERING MODE

Mode for parameter configuration (Range, pulse scale, etc.)

MAINTENANCE MODE

Mode for maintenance

ADVANCED MODE

Mode for advanced functions

Auto zeroing function (in the BASIC SETUP MODE)

Adjust zero automatically

Damping (in the BASIC SETUP MODE)

Adjustable between 0.1 and 199.9 seconds Fast response type: Adjustable between 0 and 199.9 seconds

Averaging function (in the ADVANCED MODE)

Moving average processing of the measured flow

ON/OFF, Adjustable between 1.0 and 30.0 seconds

Spike cut function (in the ADVANCED MODE)

Eliminates steep noise spikes.

Auto/Manual/OFF

Low flow cutoff

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

Drop out

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

Fail-safe mode

Determine analog/pulse output direction when the flow meter detects a critical status condition. LOW/HIGH/HOLD

Compensation coefficient (in the ADVANCED MODE)

Compensation coefficient used to multiply the output flow rate as required.

Built-in counter function

Totalizer

According to the pulse scale setting, it totals one count at a time. If double range of normal/reverse flow measurement function is set, it totals one count at a time for normal and reverse flows. If single range of flow measurement is set, it totals one count at a time only for normal flow direction.

Totalizer with presetting function

A preset value (target totalized value) can be set between 0000000000 and 999999999.

The counting method is same as that of the standard totalizer.

Normal/reverse flow difference totalizer

The difference in flow volumes in the normal or reverse flow directions is calculated and counted.

Contact input function

External 0 % lock input

Forces outputs (analog, digital, pulse) to the zero flow rate signal level.

External automatic zero adjustment input

Adjust zero.

External range switching input

Switches two flow measurement ranges.

Two flow measurement ranges:

Dual range for nominal direction. Normal/reverse range

Built-in counter reset input

Resets the totalized value in the built-in counter.

Contact output function

Alarm output

Outputs an alarm under the following conditions.

- Self-diagnostic result
- Empty pipe detection
- High/low limit alarm

Range switching output

Outputs the status of flow range.

- Large/small in the dual range
- Normal/reverse

Counter preset status output

Activates when the counter reaches the preset value

Self-diagnostic result output

Activates only when a critical failure appears by the self-diagnostic.

Empty detection output

Activates only when empty status (when electrodes are in contact with air) is detected. Please make sure that there is no air trap inside of the detector and process fluid conductivity should be 30 mS/cm or greater for functioning properly.

High/low limit alarm output

Activates when a high/low limit occurs.

Two-stage flow rate alarm output (with two contact outputs)

Activates when the first high/low limit alarm (H/L) occurs and the second high/low limit alarm (HH/LL) occurs.

Detectors coupled with MGG14C converter

MGG14C works with the following Azbil Corporation's detectors.

Integral style:

MGG11/18D, MGG11/18F, MGG11/18U, MGS11/28U, KID90A

Remote style:

MGG11/18D, MGG11/18F, MGG11/18U, MGG12/19D, MGG12/19F, MGG12/19U, MGS11/28U, MGG15D, MGG15F, KID15B, KID20B, KID30B, KID90B, KID10B, KID11B, KID12B, NNK140, NNM (some types are not compatible.)

Optional specifications

Display (optional): LCD with backlighting

Main display

7-segment, 6 digits

Sub display

16 digits, two lines

Display

Flow rate in %, Actual flow rate, Totalized value Configuration parameters, Self-diagnostic, Write protect status

Main display is selectable among "flow rate in %", "actual flow rate" and "totalized value".

Data setting device

Configuration by infrared ray touch sensor Infrared ray touch sensor: Four switches Write protect: Write protection level is set by switches in the converter.

Write protect level is indicated on the display.

Empty pipe detection

When the detector is empty, the analog output, digital output and pulse output are fixed at zero. Display is latched to zero.

Traceability certificate

The following three documents are provided.

- Traceability system chart
- Traceability certificate
- Calibration certificate

Tag number on the terminal box

The designated tag numbers (maximum 16 characters) should be stamped on a tag plate, which is attached to the terminal box. One line can contain 8 characters. Tag numbers exceed 8 characters will be stamped on the two lines.

PERFORMANCE SPECIFICATION

Measurable process fluid conductivity

It depends on the cable length between the converter and the detector.

With the detector size of 2.5 to 1100 mm (0.1 to 44 inch)

3 μS/cm or greater

Accuracy (coupled with MGG, MGS and KID90 type detectors)

Table 1

in combination with a detector <Size 2.5 to 15 mm (0.1 to 1/2 inch)>

Vs = Velocity of setting range

Vs (m/s)	Velocity during measurement≥Vs × 40 %	Velocity during measurement≤Vs × 40 %
$1.0 \le \text{Vs} \le 10$	± 0.5 % of rate	±0.2 % of Vs
$0.1 \le \text{Vs} \le 1.0$	$\pm (0.1/V_s+0.4)\%$ of	±0.4(0.1/Vs+0.4)%
	rate	of Vs

<Size 25 to 600 mm (1 to 24 inches)>

 $V_s = Velocity of setting range$

Vs (m/s)	Velocity during measurement≥Vs × 20 %	Velocity during measurement≤Vs × 20 %
$1.0 \le \text{Vs} \le 10$	± 0.5 % of rate	±0.1 % of Vs
$0.1 \le \text{Vs} \le 1.0$	$\pm (0.1/V_S+0.4)\%$ of	±0.2(0.1/Vs+0.4)%
	rate	of Vs

<Size 700 to 1100 mm (28 to 44 inches)>

Vs = Velocity of setting range

Vs (m/s)	Velocity during measurement≥Vs × 50 %	Velocity during measurement≤Vs × 50 %
$1.0 \le \text{Vs} \le 10$	± 1.0 % of rate	±0.5 % of Vs
$0.1 \le \text{Vs} \le 1.0$	$\pm (0.2/V_S+0.8)\%$ of	(0.2/Vs+0.8)% of
	rate	Vs

Magnetic field effect

 ± 0.2 %FS max. (400 A/m)

Output Fluctuation

Range set as $1 \le Vs \le 10 \text{m/s}$: $\pm 0.1 \text{ %FS max}$. Range set as $0.1 \le Vs \le 1 \text{m/s}$: $\pm 0.1 \text{/Vs} \text{\%FS max}$. (Damping: 3 seconds, with clean water (150 μ S/cm))

PHYSICAL SPECIFICATION

Housing and cover material

Aluminum alloy (ADC 12)

Glass

Tempered glass (thickness 5 mm (0.2 inch))

Name plate material

SUS304 (thickness 0.5 mm (0.02 inch))

Screw material

SUS304

Gasket material between housing and cover

EPDM

Paint

Standard: baked acrylic resin Corrosion-proof: Epoxy resin

Color

Cover: light beige (Munsell 4Y7.2/1.3) Housing: dark beige (Munsell 10YR4.7/0/5)

• Do not install the flowmeter near high-current power lines, motors or transformers to prevent damage from electromagnetic induction, which can cause equipment malfunction or output errors.

- Do not use the flowmeter to ground a welder. It can damage the flowmeter.
- Be sure to ground the welding power transformer when welding near the flowmeter to avoid output errors.
- Avoid locations subject to severe vibration or highly corrosive atmospheres to prevent detector breakage or equipment damage.
- Do not install the flowmeter in a location subject to direct sunlight, wind and rain. The converter and detector can be damaged.

INSTALLATION SPECIFICATION

Ambient temperature

-25 to +60 degree C (-13 to 140 degree F)

Ambient humidity

5 to 100 %RH (no condensation)

Vibration

Integral style: 500 Hz max. $4.9 \text{ m/S}^2 (0.5 \text{ G}) (16.076 \text{ J})$

 ft/S^2) max.

Remote style: 500 Hz max., $19.6 \text{ m/S}^2 (2 \text{ G}) (64.304 \text{ m/S}^2)$

 ft/S^2) max.

Conduit connection

G1/2 (PF1/2) internal thread, 1/2NPT internal thread, CM20 internal thread, pg13.5 internal thread

Mounting

Remote style: Wall mounting, 2-inch pipe mounting

Integral style: Mount on the detector

Grounding

Grounding resistance: 100Ω max.

Weight

3.1 kg (6.83 lb)

Site selection

When selecting an installation site for the flowmeter, observe the following safety measures:

MODEL SELECTION

MagneW3000 PLUS⁺ Smart Converter (Integral style)

Model MGG14C - I II III IV - V VI VII VIII - / Options (Some options can be selected per each model.)

Selections Optional selections

asic	model no.		Se	elect	ions	}		Opti	ional	sele
	MGG14C								T	
										
I	Power supply	100 to 120 V AC, 200 to 240 V AC, 47 to 63Hz	M							
	11.5	·	P							
		24 V DC, noise filter 60 Hz	R							
II	Output signal / Com-	Volume flow 4 to 20 mA DC output / with open collector		Н						
	munication (Note 10)	pulse output / with HART communication or without con	1-							
		munication								
		Volume flow 4 to 20 mA DC output / with open collector		В						
		pulse output / with SFC communication (Note 1)								
		Volume flow DE output / with open collector pulse output	t/	C						
		without communication (Note 1)								
		Fast Response model Volume flow 4 to 20 mA DC output		R						
		with open collector pulse output /without communication								
III	Electrical connection /	(Note 9)			2					
111	Watertight gland	G1/2 internal thread / with brass (Ni-plated) watertight gl G1/2 internal thread / with plastic watertight gland	anu		3					
	watertight gland	1/2NPT internal thread / with plastic watertight gland (Note 2			4					
		CM20 internal thread / without watertight gland (Note 2)	<u>) </u>		5					
		Pg13.5 internal thread / without watertight gland			6					
		G1/2 internal thread / with SUS304 watertight gland			7					
IV Installation / Wiring		Horizontal piping mounting / upstream side		l.		A				
1 4	direction	Horizontal piping mounting / downstream side				В				
		Horizontal piping mounting / left side viewed from upstre				С				
		Horizontal piping mounting / right side viewed from upstream D								
		Vertical piping mounting / downstream side (flow direction			Е					
		downstream to upstream)				L				
		Vertical piping mounting / (flow direction: downstream to)			T				
		upstream)								
	T=	T								
V	Finish	Corrosion-resistant finish					1	4		
* **	B: 1 :1 1:	Corrosion-proof finish (Note 7)					2	7,	4	
VI	Display with data set-	None						X	4	
	ting device	Main display: instantaneous flow rate in %						A	4	
		Main display: instantaneous actual flow rate						В	4	
X 711	0 1 1 1	Main display: indication of totalized value						C	—	4
VII	Contact inputs / out-	1 input and 1 output (ranging function, warning for conta							2	4
	puts	2 inputs (ranging function, external automatic zero adjustment input, etc.) 2 outputs (ranging function, warning for contact outputs.) 3							-	
VIII	Style code	None)	X
V III	Style code	FM/CSA NI approval (Note 3)								N
		FIVITCOA INI appiovai (Note 3)								IN

	Azbil Corporation version (Must be selected)		
	Empty pipe detection function		
	Traceability certificate for converter		
	Plastic (Polycarbonate) window		
St	Indication other than SI units (Note 6)		
Options	Attachment of the TAG number to the terminal box for converter (Note 4)		
Ор	Specific color paint (Note 5)	L	

Note: 1. External DC power supply is necessary on analog 4-20 mA output. No analog output is expected without the external DC Power supply.

- 2. Must be selected for FM / CSA NI approval.
- 3. For FM/CSA N1, the Electrical connection / watertight gland selection code must be "4".
- 4. Must be selected for Tag no. requirement.
- 5. Must specify Munsell No.
- 6. Must be specified for non-SI unit indication.
- 7. If no display is selected, configuration should be done by HART or SFC communicator.
- 8. When process fluid level in the flowtube is under electrodes, this function is activated and display and output are latched to zero.
- 9. Applicable detector size is from 15mm to 80 mm.
- 10. Code H must be selected in case that NK approval model is regurred.

MagneW3000 PLUS⁺ Smart Converter (Remote style)

Model MGG14C - I II III IV - V VI VII VIII - Options (Some options can be selected per each model.)

Basic	model no.	1	S	Selec	tion	S		Opti	onal	selecti
	MGG14C	-								
							†			
I Power supply		100 to 120 V AC, 200 to 240 V AC, 47 to 63 Hz	M							
-	l and any proj	24 V DC, noise filter 50 Hz	Р							
		24 V DC, noise filter 60 Hz	R							
II	Output signal / Com-	Volume flow 4 to 20 mA DC output / with open collections	ctor	Н						
	munication	pulse output / with HART communication or without								
	(Note 10)	munication								
		Volume flow 4 to 20 mA DC output / with open collector B								
		pulse output / with SFC communication (Note 1)								
		Volume flow DE output / with open collector pulse ou	tput /	C						
		without communication (Note 1)								
		Fast Response model Volume flow 4 to 20 mA DC ou		R						
		with open collector pulse output /without communicat	ion							
III	Electrical connection /	(Note 9) G1/2 internal thread / with brass (Ni-plated) watertigh	4 -11	1	2	_				
111	Watertight gland		it giand	1	3	-				
	watertight gland	G1/2 internal thread / with plastic watertight gland 3 1/2NPT internal thread / without watertight gland (Note 2) 4								
		CM20 internal thread / without watertight gland 5								
		Pg13.5 internal thread / without watertight gland 6								
		G1/2 internal thread / with SUS304 watertight gland			7	_				
IV	Installation / Wiring	Wall mounting with standard bracket			/	G				
1 V	direction	2-inch pipe mounting with standard bracket H								
	uncetion	Wall mounting with SUS304 bracket								
						J				
		2-inch pipe mounting with SUS304 bracket				K				
V	Finish	Corrosion-resistant finish					1			
		Corrosion-proof finish					2			
VI	Display with data set-	None (Note 7)						X		
	ting device Main display: instantaneous indication of flow rate in %				Α					
		Main display: instantaneous indication of actual flow rate						В		
		Main display: indication of totalized value						C		
VII	Contact inputs / out-	1 input and 1 output (ranging function, warning for co	ng for contact input/output, etc.)					1		
	puts	2 inputs (ranging function, external automatic zero adjustment input, etc.)							2	
2 outputs (ranging function, warning for contact outputs.)								3		
VIII	Style code	None								X
	1	FM/CSA NI approval (Note 3)								N

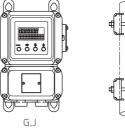
Installation / Wiring direction

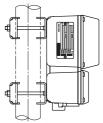
	Azbil Corporation version (Must be selected)			
	Empty pipe detection function (Note 8)			
	Traceability certificate for converter			
	Plastic (Polycarbonate) window			
St	Indication other than SI units (Note 6)			
Options	Attachment of the TAG number to the terminal box for converter (Note 4)			
$^{\mathrm{Op}}$	Specific color paint (Note 5)	L		

Note: 1. External DC power supply is necessary on analog 4-20 mA output.

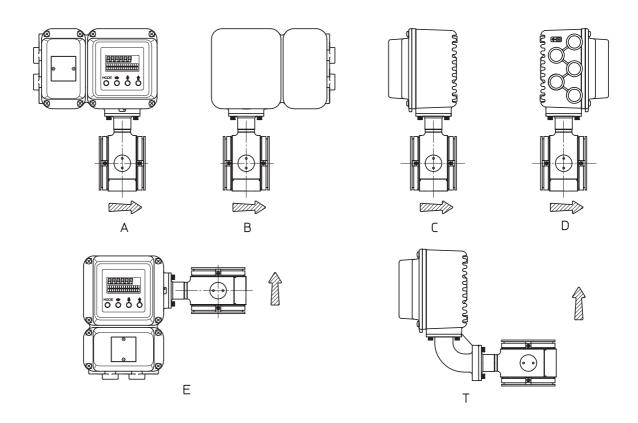
No analog output is expected without the external DC Power supply.

- 2. Must be selected for FM / CSA NI approval.
- 3. For FM/CSA N1, the Electrical connection/watertight gland selection code mus
- 4. Must be selected for Tag no. requirement
- 5. Must specify Munsell No.
- 6. Must be specified for non-SI unit indication.
- 7. If no display is selected, configuration should be done by HART or SFC communicator.
- 8. When process fluid level in the flowtube is under electrodes, this function is activated and display and output are latched to zero.
- 9. Applicable detector size is from 15 mm to 80 mm.
- 10. Code H must be selected in case that NK approval model is regurred.

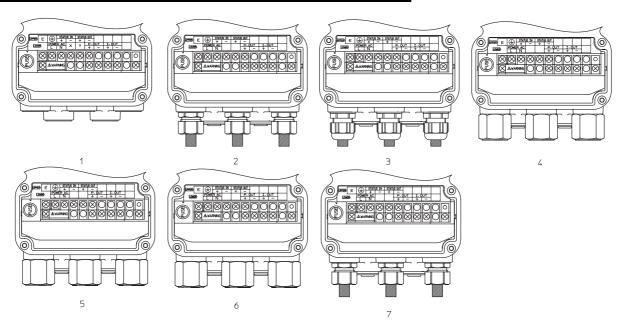




MOUNTING / WIRING DIRECTION



CONDUIT CONNECTION / WATERTIGHT GLAND



CONVERTER TERMINAL DESCRIPTION

Table 2 Remote converter terminal descriptions

(1-contact output / 1-contact input)

(2-contact inputs)

(2-contact outputs)

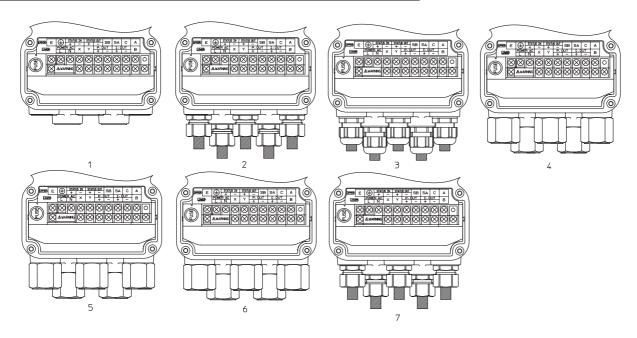
Symbol		Description			
A					
В		Elavy signal innut			
С		Flow signal input from detector			
SA		nom detector			
SB					
LOUT	+	A 1			
I. OUT	_	Analog output			
P. OUT	+	Dulgo output			
P. 001	_	Pulse output			
X		Evoitation autnut			
Y		Excitation output			
STATUS	+	Contest of the A			
OUT	_	Contact output			
STATUS	+	Control in a			
IN	_	Contact input			
POWER	L	Danian armu1			
AC	N	Power supply			
Е		Not used			
		Grounding (grounding			
Ť		resistance must be <			
		100Ω)			

Symbol		Description			
A					
В		Flow signal input			
C		from detector			
SA		Hom detector			
SB					
LOUT	+	A 1			
I. OUT	_	Analog output			
P. OUT	+	Pulso output			
F. 001	-	Pulse output			
X		Evaitation autnut			
Y		Excitation output			
STATUS	+	C + +: +2			
IN 2	_	Contact input 2			
STATUS	+	0 1 1			
IN 1	_	Contact input 1			
POWER	L	Da			
AC	N	Power supply			
Е		Not used			
		Grounding (grounding			
<u> </u>		resistance must be <			
		100 Ω)			

Symbol		Description
A B C SA SB		Flow signal input from detector
I. OUT	+	Analog output
P. OUT	+	Pulse output
X Y		Excitation output
STATUS OUT1	+	Contact output1
STATUS IOUT2	+	Contact output2
POWER AC	L N	Power supply
Е		Not used
Ť		Grounding (grounding resistance must be $<$ 100 Ω)

Note:

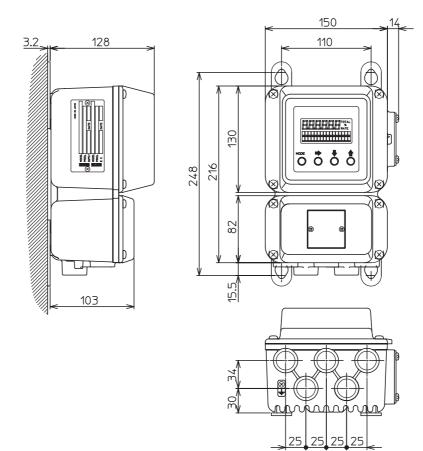
CONDUIT CONNECTION / WATERTIGHT GLAND



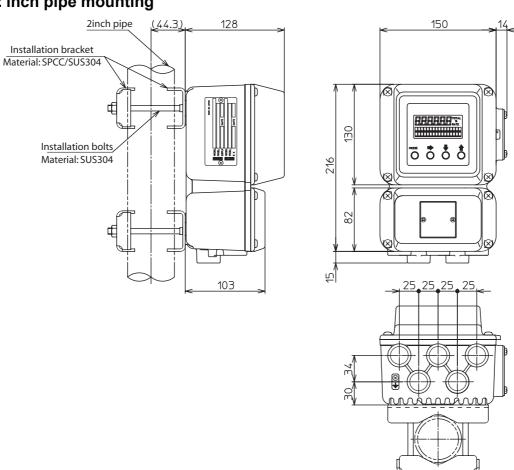
Dimension drawings

[Unit: mm]

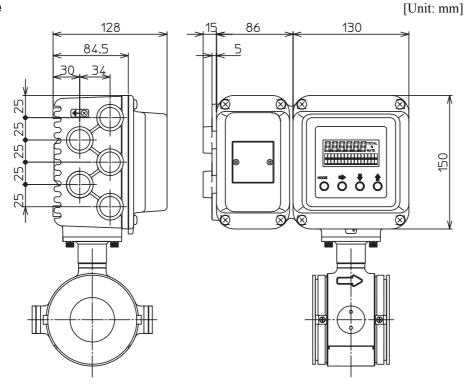
Wall mounting



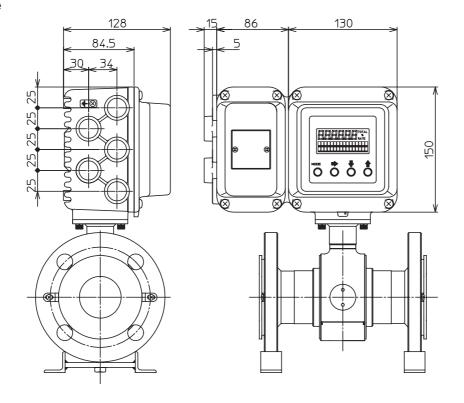
2 inch pipe mounting



Integral type



Flange type



http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.



Azbil Corporation

Advanced Automation Company

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