

OUTLINE

The **MAGMAX[®]** EGM4050C is a compact electromagnetic flowmeter consisting of the flange type EGS4000 primary head, which is lined with PFA or PTFE, from the proven MAGMAX series, and the EGC050 converter mounted on it.

The enhanced self-diagnosis unit can detect empty flow and monitor the status of the primary head.

Nominal sizes of 10mm to 1000mm are available. The EGM4050C is ideal for chemicals and many other applications.

FEATURES

- ❑ High-quality, clear PFA reinforced with a punched plate ensures high resistance against corrosion, erosion, and permeation (applicable size: 25 to 150mm)
- ❑ PFA, PTFE, and other lining materials are available.
- ❑ High accuracy of $\pm 0.5\%$ of reading
- ❑ High-speed data processing enables quick response. Suitable for controlling batch processes and measuring pulsating flows
- ❑ The extendable excitation system can handle applications with severe fluid noise such as slurry.
- ❑ The LCD with backlight provides various indications in 1–3 lines.
- ❑ The quick setup function makes it easy to handle changes in the flow range, pulse rate, etc.
The attached magnet can be used to change the settings without opening the cover of the converter.
- ❑ 10kHz high-speed pulse output. Capable of handling short batch processes.

STANDARD SPECIFICATION

General Specifications

- Excitation: Square wave
- Nominal size: 10, 15, 20, 25, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000mm
(Contact us for sizes larger than 1000mm.)
- Measuring range: Flow velocity
Min. 0 to 0.3m/s
Max. 0 to 12m/s
Flow rate
Min. 0 to 0.085m³/h
(the minimum flow rate for the size of 10mm)
Max. 0 to 33928.8m³/h
(the maximum flow rate for the size of 1000mm)
- Protection class: IP66/67 (IEC 60529)
- Materials of the main body
Measuring tube: Stainless steel (SS304)
Primary head housing: Cast duplex stainless steel
*1 for sizes of up to 20mm (standard)
Carbon steel *1 for sizes of 25mm or larger (standard)
Stainless steel (SS304) for sizes of 25mm or larger (option)
- Flange: Carbon steel *1 (standard)
Stainless steel (SS316L) (option)
- Converter housing: Aluminum alloy *1
Converter cover: Aluminum alloy *1
*1: Finished with anti-corrosion painting



● Materials of wetting parts:

- | | |
|------------------------|---|
| Lining: | PTFE for sizes of 10 to 20mm (standard)
PFA for sizes of 25 to 150mm (standard)
ETFE for sizes of 200 to 1000mm (standard)
PTFE for sizes of 200 to 600mm (option)
* For details, see "LINING MATERIAL AND FLANGE." |
| Electrode: | Hastelloy [®] C22 (standard)
Hastelloy [®] B2, stainless steel (SS316), titanium, tantalum, platinum, low-noise type (option) |
| Earth ring: | Stainless steel (SS316) (standard)
Hastelloy [®] B, Hastelloy [®] C, titanium, tantalum (option) |
| ● Painting: | Siloxane coating |
| ● Color: | Grey (Primary head housing/converter housing)
Jade green (Converter cover) |
| ● Cable entry: | 2×G1/2 female thread
2×1/2 NPT female thread
2×M20 with watertight glands
Watertight glands for G1/2 (option) |
| ● Power supply: | 100 to 230V AC (85 to 253V AC)
24V DC (17 to 31V)
* Figures in parentheses are the allowable voltage range. |
| ● Power frequency: | 48 to 63Hz (AC) |
| ● Power consumption: | Approx. 15VA (AC)
Approx. 6W (DC) |
| ● Ambient temperature: | –40 to +65°C for operation
–40 to +70°C for storage |
| ● Grounding: | Less than 100Ω |
| ● Process connection: | Flange |
| ● Flanges: | JIS10K/20K, ASME class 150/300, DIN PN10/16/40
* For details, see "LINING MATERIAL AND FLANGE." |

Fluid Specifications

- Temperature: -40 to +140°C
- Pressure: Up to the rated pressure of flanges
* Allowable temperature and pressure depend on lining materials. For details, see "LINING MATERIAL AND FLANGE."
- Conductivity: 10μS/cm or more for 10 to 150mm
5μS/cm or more for 200 to 1000mm
(The conductivity of water must be at least 20μS/cm for any size.)

Indication and Output Specifications

- Indicator: Dot matrix LCD with backlight
128×64 pixels (59×31mm)
- Indication: Two-line display on the first screen
- First line: Flow rate
- Second line: Flow rate in bar graph (%)
- Three-line display on the second screen
- First line: Flow rate
- Second line: Totalized flow in the forward direction
- Third line: Totalized flow in the reverse direction
- Current output: 4–20mA DC (Max. 22mA in burn-out error mode)
- Internal power supply: Less than 750Ω (load resistance)
- External power supply: Less than 32V DC (external voltage)
- Pulse output (standard)
- Open collector output
- Rating: Less than 32V DC, 20mA (≤10kHz)
Less than 100mA (≤100Hz)
- Residual voltage at ON: Less than 0.2V DC when circuit current is 10mA
- Leak current at OFF: Less than 0.05mA when external circuit voltage is 24V DC
- Pulse rate: 2 to 36,000,000 pulse/h (0.00056Hz to 10kHz)
- Pulse width: Selectable from
(1) Automatic: Pulse width by which the duty factor becomes 50% at full scale
(2) Duty ratio fixed to 1:1
(3) Free setting: 0.05 to 500ms
- Status output (By changing the setting, the pulse output terminal can be switched to the status output terminal.)
- Open collector output
- Rating: Less than 32V DC, 100mA
- Residual voltage at ON: Less than 0.2V DC when circuit current is 10mA
- Leak current at OFF: Less than 0.05mA when external circuit voltage is 32V DC
- Contents of output: Selectable from
(1) Flow direction
(2) Over range
(3) Error
(4) Flow alarm
(5) Empty flow detection

● Description of output terminals

Terminal	Default	Switchable to/from
A (A, A + / A -)	Current output	—
D (D, D -)	Pulse output	Status output

- Low-flow cutoff: Any value from 0.0 to 20.0% FS can be set separately for the current output, pulse output, and indication. The standard setting is as follows.
ON 1% and OFF 2% FS for the current output and pulse output
0% FS for the indication
- Damping time constant: Any value from 0.01 to 100.0s can be set separately for the current output, pulse output, and indication. The standard setting is as follows.
4s for the current output and indication
0s for the pulse output
- Isolation of inputs and outputs: Circuits for power supply, electrode input, excitation output, terminal A, and terminal D are isolated from each other.

Standard Functions

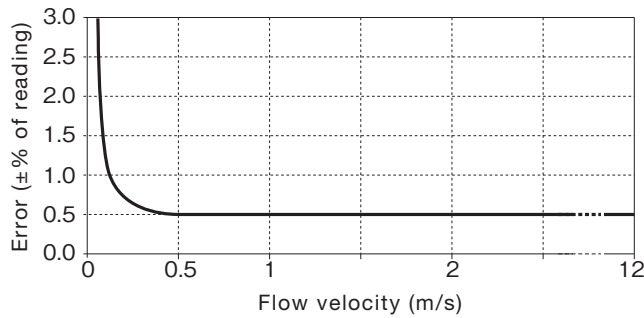
- Measuring unit creating function: Volume (or mass) and time units can be created in 7 characters for indicating flow rates.
- Automatic zero-adjustment function: Zero adjustment is automatically conducted in the zero adjust mode (at still flow).
- Bi-directional flow measurement function: The flow-direction signal is output from the status output and current output.
- Excitation frequency switching function
Standard mode: 1/6 × power frequency
Special mode: 1/50 to 1/2 × power frequency *2
- Self-diagnosis function: Error messages to be issued are as follows.
Functional diagnosis: Coil disconnection, CPU, memory, software, output module, and output connection
Status diagnosis: Empty flow, over range, counter overflow, and power failure
- Power interruption backup function: Parameter settings and totalized flow values are stored in EEPROM (nonvolatile memory) for more than 10 years.
- Testing function: Simulating current, pulse, and status outputs
Current: 0.0 to 22.0mA
Pulse: 1Hz to 10kHz
Status: ON/OFF
- Magnetic setting function: Settings can be changed with a magnet without opening the cover of the converter.
*2: Special modes can be set for various applications such as slurry and pulsating flow.

Accuracy *3

● Indication and pulse output

For velocity ≥ 0.5m/s: ±0.5% of reading

For velocity < 0.5m/s: velocity error ± 2.5mm/s



● Current output: Add ±0.01mA to the accuracy of indication or pulse output.

*3: Basic conditions

- Fluid: Water
- Fluid temperature: 10 to 30°C
- Conductivity: 150µS/cm or more
- Supply voltage: Rated voltage ± 2%
- Ambient temperature: 18 to 28°C
- Upstream/downstream straight run: 10D/2D (D: Diameter)
- Warm-up time: About 10 minutes
- Measuring time: 100s

FLUID TEMPERATURE AND PRESSURE RANGE

Fluid Temperature

Lining material	Nominal size (mm)	Fluid temperature	Ambient temperature
PFA	25 to 150	-40 to +140°C	-40 to +65°C
PTFE	10 to 20, 200 to 600		
ETFE	200 to 1000	-40 to +120°C	

Allowable Maximum Pressure and Negative Pressure

Lining material	Nominal size (mm)	Allowable maximum pressure (MPa)*	Allowable negative pressure (kPa (abs)) at respective fluid temperatures				
			40°C	60°C	80°C	100°C	120°C
PFA	25 to 150	5	0	0	0	0	0
PTFE	10 to 20	5	0	0	0	0	50
	200 to 300	5	50	75	100	100	100
	350 to 600	5	80	100	100	100	100
ETFE	200 to 1000	15	10	10	10	10	10

*Values in the table are the maximum pressure for the main body. Rated pressure for flanges prevails over the allowable maximum pressure.

FLOW RANGE

Nominal size (mm)	Flow range that can be set (m ³ /h)		Nominal size (mm)	Flow range that can be set (m ³ /h)	
	Min. (flow velocity: 0 to 0.3m/s)	Max. (flow velocity: 0 to 12m/s)		Min. (flow velocity: 0 to 0.3m/s)	Max. (flow velocity: 0 to 12m/s)
10	0 to 0.085	0 to 3.393	250	0 to 53.013	0 to 2120.520
15	0 to 0.191	0 to 7.634	300	0 to 76.341	0 to 3053.640
20	0 to 0.339	0 to 13.572	350	0 to 103.908	0 to 4156.320
25	0 to 0.530	0 to 21.205	400	0 to 135.717	0 to 5428.680
40	0 to 1.357	0 to 54.287	450	0 to 171.765	0 to 6870.600
50	0 to 2.121	0 to 84.823	500	0 to 212.058	0 to 8482.320
65	0 to 3.584	0 to 143.352	600	0 to 305.370	0 to 12214.800
80	0 to 5.429	0 to 217.152	700	0 to 415.620	0 to 16624.800
100	0 to 8.482	0 to 339.288	800	0 to 542.880	0 to 21715.200
125	0 to 13.254	0 to 530.148	900	0 to 687.060	0 to 27482.400
150	0 to 19.085	0 to 763.404	1000	0 to 848.220	0 to 33928.800
200	0 to 33.930	0 to 1357.200			

LINING MATERIAL AND FLANGE

⊙: Standard ○: Selectable -: Not selectable

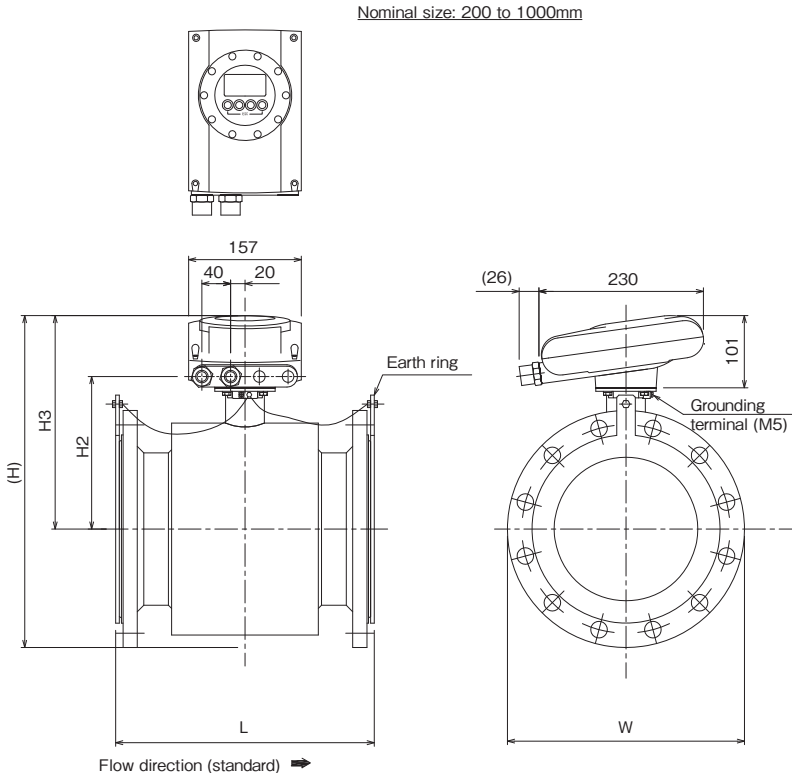
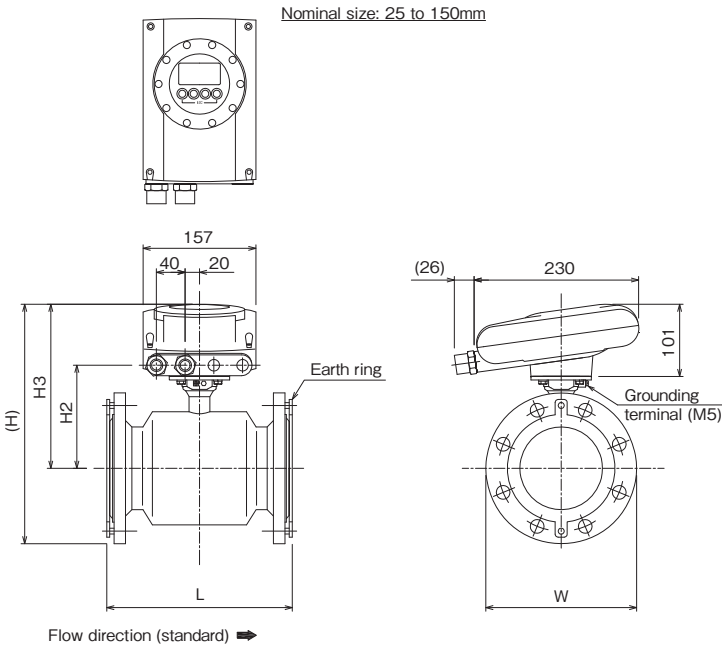
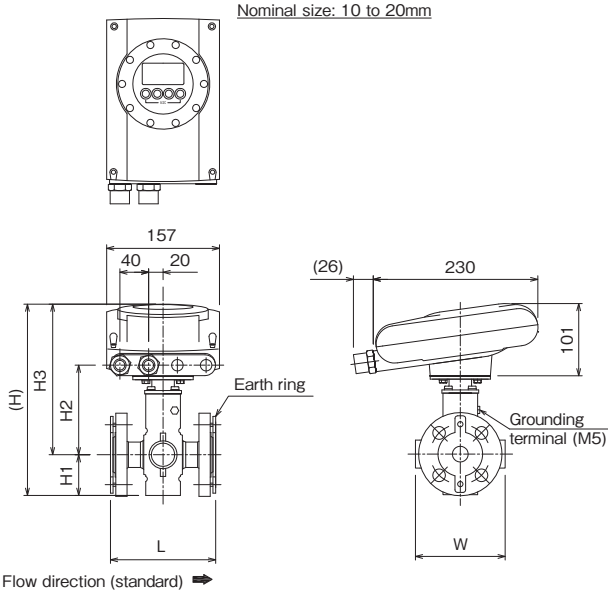
Flange rating	Lining material	Nominal size (mm)																						
		10	15	20	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
JIS10K※1	PTFE	⊙	⊙	⊙	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
JIS20K	PTFE※2	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	-
ASME class 150	PTFE	⊙	⊙	⊙	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
ASME class 300	PTFE※2	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-
DIN PN10	PTFE	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
DIN PN16	PTFE	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	-	-	-	⊙	-	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○
DIN PN25	PTFE	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	-	-	-	○	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-
DIN PN40	PTFE	⊙	⊙	⊙	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	-	-
	PFA	-	-	-	⊙	⊙	⊙	○	⊙	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-
	ETFE	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-

※1 For a nominal size of 10 to 40mm, the JIS20K flange is the standard but the JIS10K flange is also selectable. (Except for thickness, all sizes of the JIS10K flange are the same as those of the JIS20K flange.)

※2 For a nominal size of 25 to 150mm, the housing of the primary head differs in shape from the standard type.

DIMENSIONS

Version A type (standard) :



Nominal size (mm)	Dimensions (mm)								Mass (kg)	
	L ※1		H		H1	H2	H3	W ※2	JIS 10K	ASME 150
	JIS 10K	ASME 150	JIS 10K	ASME 150						
10	156	156	269	269	62	152	207	121	8	9
15	156	156	269	269	62	152	207	121	8	9
20	156	156	269	269	62	152	207	121	10	11
25	156	156	247	239	—	130	185	90	10	11
40	156	156	262	256	—	137	192	105	11	12
50	206	206	281	280	—	149	204	120	11	12
65	206	206	290	291	—	153	208	140	13	14
80	206	206	303	305	—	155	210	150	15	16
100	256	256	333	342	—	173	228	175	18	21
125	256	256	367	369	—	187	242	210	22	25
150	306	306	398	397	—	203	258	240	25	29
200	356	356	465	471	—	209	300	291	43	52
250	406	406	521	524	—	230	321	331	59	75
300	506	506	568	587	—	255	346	381	71	108
350	506	708	613	634	—	277	368	428	92	143
400	606	806	674	692	—	303	394	483	115	183
450	606	806	729	736	—	328	419	533	136	205
500	606	806	783	794	—	354	445	585	150	245
600	606	806	898	906	—	409	500	694	192	334
700	706	—	1011	—	—	468	559	812	280	—
800	906	—	1125	—	—	524	615	922	370	—
900	1006	—	1227	—	—	576	667	1026	474	—
1000	1206	—	1337	—	—	628	719	1132	565	—

※1 (1) The face-to-face dimension (L) includes the thickness of earth rings.

When the earth ring material is tantalum, the face-to-face dimension (L') is calculated as follows (for sizes of 10 to 150mm).

$$L' = (L + 7) \text{ mm}$$

Contact us for sizes of 200mm or more.

When the lining material is ETFE or hard rubber, gaskets are required between the primary head and the earth ring. In this case, the face-to-face dimension (L') is calculated as follows.

$$L' = (L + 2 \times t) \text{ mm}$$

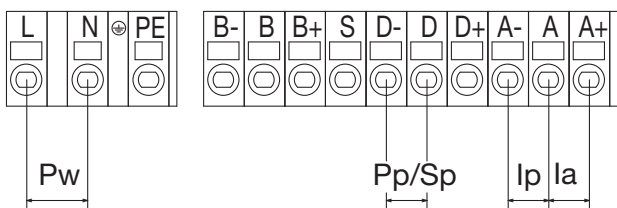
t: Thickness of the gasket between the lining and the earth ring

(2) The face-to-face dimensions (L) in the table above are for flanges with a rating of JIS10K or ASME class 150.

Contact us for other ratings.

※2 The size W shows the size of the housing (outer casing).

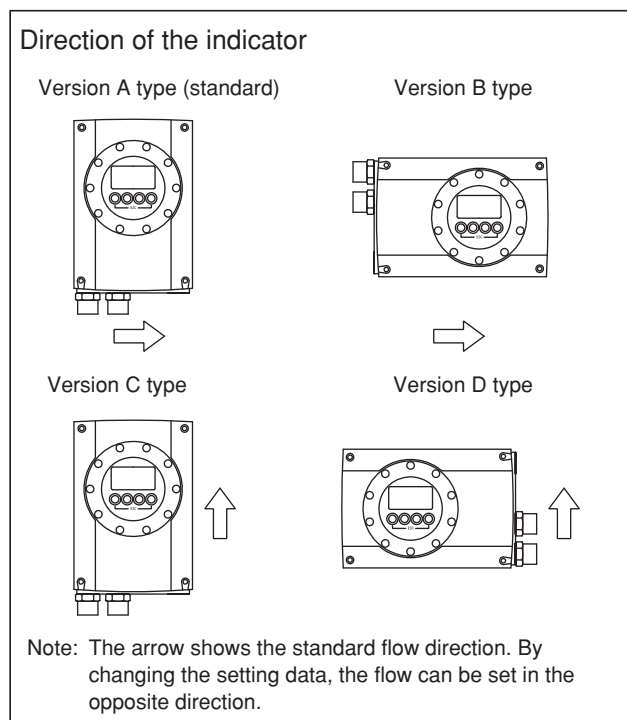
ELECTRICAL CONNECTION



Symbol	Terminal	Polarity	Description
Ip	A	+	Current output when power is supplied externally
	A-	-	
Ia	A	-	Current output when power is supplied internally
	A+	+	
Pp/Sp	D	+	Pulse output or status output by open collector)
	D-	-	
Pw	L (L+)	(+)	AC or DC power supply + or - in parentheses shows the polarity of a DC power supply.
	N (L-)	(-)	
	PE (FE)		Grounding for the power supply. "FE" is for a DC power supply.
	D+/S/B+/B-/B-		Not used.

● Terminal type: Spring clamp terminal

● Applicable core size: 0.5 to 2.5mm²



MODEL CODE

● Nominal size: 10 to 150mm

Model: EGM4050C

Primary head spec. code										Description										Standard
Primary head code										Flange type										○
(Fixed code)										Always 4										○
Nominal size										Standard lining (JIS10K) ※2										○
1										10mm ※1										○
2										15mm										○
3										20mm										○
4										25mm										○
6										40mm										○
7										50mm										○
8										65mm										○
A										80mm										○
B										100mm										○
C										125mm										○
D										150mm										○
Flange										DIN PN16										○
3										DIN PN40										○
5										ASME class 150										○
A										ASME class 300										○
B										JIS 20K										○
M										JIS 10K (for nominal size of 50mm or larger) ※3										○
N										Others										○
9										Always 0										○
(Fixed code)										Compact type (EGC050 converter)										○
Type										PTFE (size: 10 to 20mm)										○
Lining ※4										PFA (size: 25 to 150mm)										○
2										Stainless steel SS316										○
S										Hastelloy® C22										○ ※5
Material of electrode										Hastelloy® B2										○ ※6
1										Tantalum										○
B										Titanium										○
4										Platinum										○
5										Low-noise type (Hastelloy® C22)										○
6										Low-noise type (Stainless steel (SS316))										○
7										Fixed type										○
N										Cast duplex stainless steel/carbon steel (size: 10 to 20mm)										○
U										Cast duplex stainless steel/stainless steel (SS316L) (size: 10 to 20mm)										○
Electrode construction										Carbon steel/carbon steel (size: 25 to 150mm)										○
1										Carbon steel/stainless steel (SS316L) (size: 25 to 150mm)										○
Material of primary head housing and flange										IP66/67										○
U										Always 00										○
W										Standard										○
1										Stainless steel (SS316)										○
3										Hastelloy® C										○
Protection class										Hastelloy® B										○
(Fixed code)										Tantalum										○
0 0										Titanium										○
Calibration										Others										○
0										Always 02000000										○
Material of earth ring										(Blank) None										○
H										/Z Specified ※7										○
(Fixed code)										Always 02000000										○
Special feature																				○

Converter spec. code										Description										Standard
Converter code										Model: EGC050										○
(Fixed code)										Always 4										○
Type										Compact type										○
Power supply										24 V DC (17 to 31V)										○
1										100 to 230 V AC (85 to 253V)										○
A										Always 0										○
(Fixed code)										1/2 NPT female thread										○
Cable entry										G1/2 female thread										○
4										M20 with watertight glands										○
5										Always 600										○
6										Version A (standard)										○
(Fixed code)										Version B ※8										See "Direction of the indicator"
Orientation of indicator installation										Version C ※8										
A										Version D										
B										Always 2										○
C										Standard (current output + pulse output + status output)										○
D										Always 00000										○
(Fixed code)										(Blank) None										○
Output type										/Z Specified										○
(Fixed code)																				○
Special feature																				○

※1 : The size of a flange for the nominal size of 10mm is 15A or 1/2" .

※2 : Standard materials are for the JIS10K flange. For details, see "LINING MATERIAL AND FLANGE."

※3 : For a nominal size of 10 to 40mm, the JIS20K flange is the standard but the JIS10K flange is also selectable.

(Except for thickness, all sizes of the JIS10K flange are the same as those of the JIS20K flange.)

For a nominal size of 10 to 40mm, choose the JIS20K flange (code: M).

※4 : Selectable material of linings depends on nominal sizes and flange ratings. See "LINING MATERIAL AND FLANGE."

※5 : Hastelloy® C22 is a standard electrode material for sizes of 40 to 1000mm.

※6 : Hastelloy® B2 is a standard electrode material for sizes of 10 to 25mm.

※7 : Add code "/Z" at the end of your spec. code and provide us with details. To check feasibility, contact us before ordering.

※8 : JIS20K, ASME class 300 or larger flanges are not applicable to models with a nominal size of 150mm.

● Nominal size: 200 to 600mm

Model: EGM4050C

Primary head spec. code	V	N	0	4	4	0	1	K	1	0	0	0	0	0	0	2	0	0	0	0	0	0	Description	Standard	
Primary head code	V	N	0	4	4																	Flange type	○		
(Fixed code)					4																	Always 4	Standard lining (JIS10K) ※2	○	
Nominal size		E																				200mm	ETFE		
		F																				250mm	ETFE		
		G																				300mm	ETFE		
		H																				350mm	ETFE		
		K																				400mm	ETFE		
		L																					450mm	ETFE	
		M																					500mm	ETFE	
	N																					600mm	ETFE		
Flange		2																				DIN PN10			
		3																				DIN PN16			
		4																				DIN PN25			
		5																				DIN PN40			
		A																				ASME class 150			
		B																				ASME class 300			
		M																				JIS 20K			
		N																				JIS 10K	○		
		9																				Others			
(Fixed code)		0																			Always 0	○			
Type							1	K														Compact type (EGC050 converter)	○		
Lining ※4							0															ETFE	○		
							2															PTFE			
Material of electrode							1															Stainless steel SS316			
							B															Hastelloy® C22	○ ※5		
							4															Hastelloy® B2			
							5															Tantalum			
							6															Titanium			
							7															Platinum			
							N															Low-noise type (Hastelloy® C22)			
						U															Low-noise type (Stainless steel (SS316))				
Electrode construction							1															Fixed type	○		
Material of primary head housing and flange							1															Carbon steel/carbon steel	○		
							3															Carbon steel/Stainless steel (SS316L)			
Protection class							0															IP66/67	○		
(Fixed code)							0	0														Always 00			
Calibration																						Standard			
Material of earth ring																						H	Stainless steel (SS316)	○	
																						K	Hastelloy® C		
																						L	Hastelloy® B		
																						M	Tantalum		
																						N	Titanium		
																							9	Others	
(Fixed code)																						0 2 0 0 0 0 0 0	Always 02000000	○	
Special feature																						(Blank)	None	○	
																						/Z	Specified ※7		

Converter spec. code	V	N	3	4	4	4	0	6	0	0	2	1	0	0	0	0	0	0	0	0	Description	Standard		
Converter code	V	N	3	4	4																	Model: EGC050	○	
(Fixed code)					4																	Always 4	○	
Type					4																	Compact type	○	
Power supply							1															24 V DC (17 to 31V)		
							A															100 to 230 V AC (85 to 253V)	○	
(Fixed code)							0															Always 0	○	
Cable entry																						4	1/2 NPT female thread	
																						5	G1/2 female thread	○
																						6	M20 with watertight glands	
(Fixed code)							6	0														Always 600	○	
Orientation of indicator installation																						A	Version A (standard)	○
																						B	Version B ※9	See "Direction of the indicator"
																						C	Version C ※9	
																						D	Version D	
(Fixed code)																					2	Always 2	○	
Output type																						1	Standard (current output + pulse output + status output)	○
(Fixed code)																						0 0 0 0 0	Always 00000	○
Special feature																						(Blank)	None	○
																						/Z	Specified	

※2 : Standard materials are for the JIS10K flange. For details, see "LINING MATERIAL AND FLANGE."
 ※4 : Selectable material of linings depends on nominal sizes and flange ratings. See "LINING MATERIAL AND FLANGE."
 ※5 : Hastelloy® C22 is a standard electrode material for sizes of 40 to 1000mm.
 ※7 : Add code "/Z" at the end of your spec. code and provide us with details. To check feasibility, contact us before ordering.
 ※9 : JIS20K, ASME class 300 or larger flanges are not applicable to models with a nominal size of 200mm.

● Nominal size: 700 to 1000mm

Model: EGM4050C

Primary head spec. code										Description										Standard		
V N 0 5 4																				Flange type	○	
Primary head code																				Always 4	Standard lining (JIS10K) ※2	○
(Fixed code)																						
Nominal size										P										700mm	ETFE	
										R										800mm	ETFE	
										S										900mm	ETFE	
										T										1000mm	ETFE	
Flange										2										DIN PN10		
										3										DIN PN16		
										A										ASME class 150		
										N										JIS 10K		○
										9										Others		
(Fixed code)										0										Always 0	○	
Type										1 K										Compact type (EGC010 converter)	○	
Lining ※4										0										ETFE	○	
Material of electrode										1										Stainless steel (SS316)		
										B										Hastelloy® C22		○ ※5
										4										Hastelloy® B2		
										5										Tantalum		
										6										Titanium		
										7										Platinum		
										N										Low-noise type (Hastelloy® C22)		
U										Low-noise type (Stainless steel (SS316))												
Electrode construction										1										Fixed type	○	
Material of primary head housing and flange										1										Carbon steel/carbon steel		○
										3										Carbon steel/Stainless steel (SS316L)		
Protection class										0										IP66/67	○	
(Fixed code)										0 0 0										Always 00		
Calibration										0										Standard		
Material of earth ring										H										Stainless steel SS316		○
										K										Hastelloy® C		
										L										Hastelloy® B		
										N										Titanium		
										9										Others		
(Fixed code)										0 2 0 0 0 0 0 0 0										Always 02000000	○	
Special feature										(Blank)										None	○	
										/Z										Specified ※7		

Converter spec. code										Description										Standard		
V N 3 4 4 4 0 6 0 0 2 1 0 0 0 0 0																				Model: EGC050	○	
Converter code																				Always 4	○	
(Fixed code)																				Compact type	○	
Type										4										24 V DC (17 to 31V)		
Power supply										1										100 to 230 V AC (85 to 253V)		○
(Fixed code)										0										Always 0		○
Cable entry										4										1/2 NPT female thread		
										5										G1/2 female thread		○
										6										M20 with watertight glands		
(Fixed code)										6 0 0										Always 600		○
Orientation of indicator installation										A										Version A (standard)		See "Direction of the indicator"
										B										Version B		
										C										Version C		
										D										Version D		
(Fixed code)										2										Always 2		○
Output type										1										Standard (current output + pulse output + status output)		○
(Fixed code)										0 0 0 0 0										Always 00000		○
Special feature										(Blank)										None		○
										/Z										Specified		

※2 : Standard materials are for the JIS10K flange. For details, see "LINING MATERIAL AND FLANGE."

※4 : Selectable material of linings depends on nominal sizes and flange ratings. See "LINING MATERIAL AND FLANGE."

※5 : Hastelloy® C22 is a standard electrode material for sizes of 40 to 1000mm.

※7 : Add code "/Z" at the end of your spec. code and provide us with details. To check feasibility, contact us before ordering.

STANDARD ACCESSORIES

- Parameter sheet : 1
- Instruction manual : 1
- Magnet for data setting : 1

OPTION

- GWatertight gland for G1/2 female threads: WG

ORDERING

Please specify the following when ordering.

1. Model and specification codes

Example:

Model: EGM4050C

Primary head spec. code: VN0347N01KSB110000H02000000

Converter spec. code: VN3444A05600A2100000

2. Full scale flow range (not necessary for option /NS)

3. Optional specifications (if necessary)

Please specify desirable options with symbols with reference to the above section.

4. Name of process fluid

* Specification is subject to change without notice.

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