

Drawings

ADMAG TI Series AXW Magnetic Flowmeter [Size: 25 to 400 mm (1 to 16 in.)] Wafer

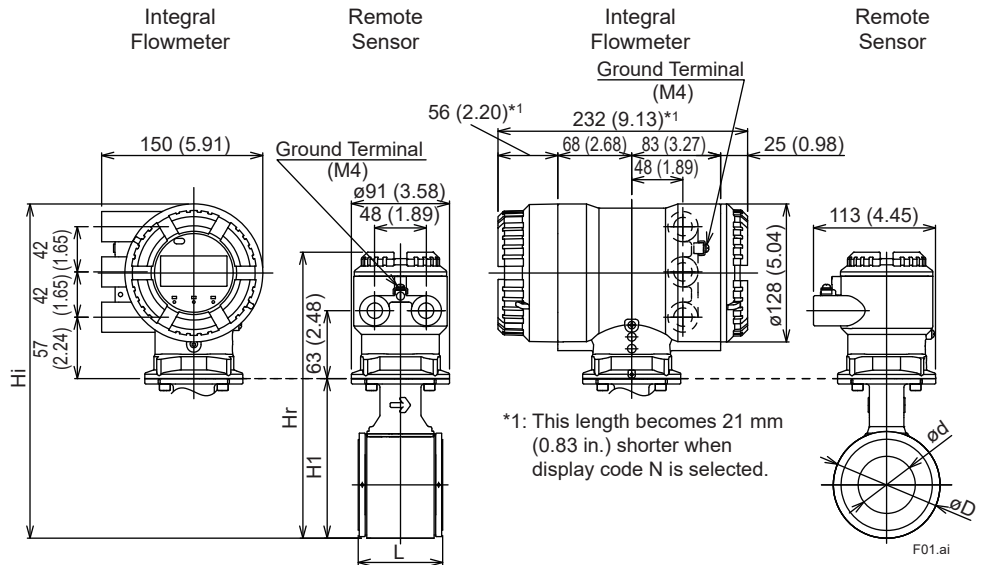
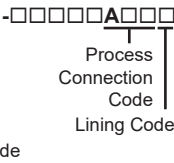


SD 01E24D01-01EN

Unit: mm (approx. in.)

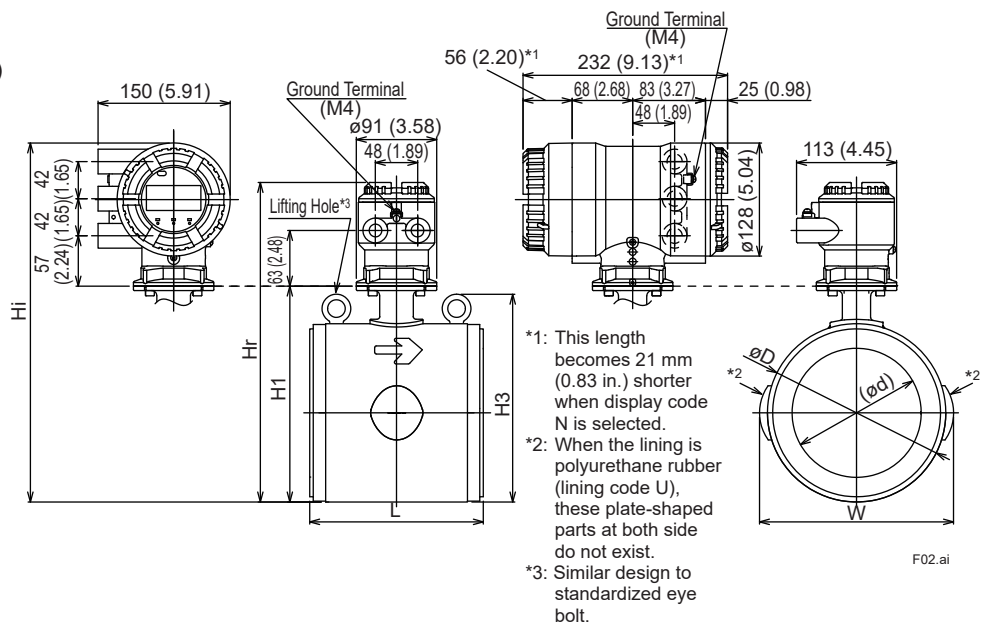
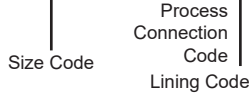
Size 25 to 125 mm (1 to 5 in.)

- AXW025
- AXW032
- AXW040
- AXW050
- AXW065
- AXW080
- AXW100
- AXW125



Size 150 to 200 mm (6 to 8 in.)

- AXW150
- AXW200



Unless otherwise specified, difference in the dimensions are specified as : General tolerance = ± (Criteria of tolerance class IT18 in JIS B0401-1) / 2

	Direction of Cable Entry			
	Standard (0°)	+90° rotation	+180° rotation	-90° rotation
Integral Flowmeter				
Remote Sensor				

* The direction of cable entry changes as shown left depending on the designation of the optional code RH with its rotational specification.

Unit: mm (approx. in.)

Model	Process Connection Code	AA1, AA2, AJ1, AJ2																	
		AE4				AE2				AE1									
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Size Code	025	032	040	050	050	065	065	080	100	100	100	125	125	150	150	200	200	
	Size	25 (1)	32 (1.25)	40 (1.5)	50 (2)	50 (2)	65 (2.5)	65 (2.5)	80 (3)	100 (4)	100 (4)	100 (4)	125 (5)	125 (5)	150 (6)	150 (6)	200 (8)	200 (8)	
	Lining Code	U	U	U	U	H,D	U	H,D	U,H,D	U	H	D	U,D	H	U	H,D	U	H,D	
Remote Sensor	Lay Length (*1)	L	58 (2.30)	68 (2.69)	68 (2.69)	78 (3.09)	78 (3.09)	98 (3.87)	98 (3.87)	118 (4.66)	148 (5.84)	148 (5.84)	148 (5.84)	198 (7.81)	198 (7.81)	197 (7.74)	197 (7.74)	247 (9.70)	247 (9.70)
	Outer Diameter	øD	66 (2.66)	73 (2.87)	86 (3.39)	99 (3.90)	99 (3.90)	117 (4.61)	117 (4.61)	129 (5.08)	155 (6.10)	155 (6.10)	155 (6.10)	183 (7.20)	183 (7.20)	202 (7.94)	202 (7.94)	252 (9.91)	252 (9.91)
	Lining Inner Diameter	ød	24 (0.93)	29 (1.13)	37 (1.44)	49 (1.94)	50 (1.95)	61 (2.40)	61 (2.41)	73 (2.87)	97 (3.82)	98 (3.87)	96 (3.79)	121 (4.76)	123 (4.84)	145 (5.71)	147 (5.80)	194 (7.63)	194 (7.63)
Integral Flowmeter	Width	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220 (8.65)	270 (10.61)
	Height	H1	110 (4.33)	116 (4.57)	129 (5.08)	148 (5.83)	148 (5.83)	165 (6.50)	165 (6.50)	175 (6.89)	201 (7.91)	201 (7.91)	201 (7.91)	230 (9.06)	230 (9.06)	244 (9.62)	244 (9.62)	294 (11.59)	294 (11.59)
	Height	H3	-	-	-	-	-	-	-	-	-	-	-	-	-	235 (9.26)	235 (9.26)	285 (11.22)	285 (11.22)
Remote Sensor	Maximum Height	Hr	227 (8.94)	233 (9.17)	246 (9.69)	265 (10.43)	265 (10.43)	282 (11.10)	282 (11.10)	292 (11.50)	318 (12.52)	318 (12.52)	318 (12.52)	347 (13.66)	347 (13.66)	362 (14.24)	362 (14.24)	412 (16.21)	412 (16.21)
	Approx. Weight, Unit: kg (lb) (*2)		2.2 (4.9)	2.4 (5.3)	2.6 (5.7)	3.2 (7.1)	3.2 (7.1)	3.9 (8.6)	3.9 (8.6)	4.6 (10.1)	6.3 (13.9)	6.3 (13.9)	6.3 (13.9)	10.5 (23.2)	10.5 (23.2)	14 (30.9)	14 (30.9)	20 (44.2)	20 (44.2)
Integral Flowmeter	Maximum Height	Hi	272 (10.71)	278 (10.94)	291 (11.46)	310 (12.20)	310 (12.20)	327 (12.87)	327 (12.87)	337 (13.27)	363 (14.29)	363 (14.29)	363 (14.29)	392 (15.43)	392 (15.43)	406 (16.00)	406 (16.00)	456 (17.97)	456 (17.97)
	Approx. Weight, Unit: kg (lb)		4.8 (10.6)	4.9 (10.8)	5.1 (11.2)	5.7 (12.6)	5.7 (12.6)	6.4 (14.1)	6.4 (14.1)	7.2 (15.9)	8.8 (19.4)	8.8 (19.4)	8.8 (19.4)	13.1 (28.9)	13.1 (28.9)	16 (35.3)	16 (35.3)	23 (50.8)	22 (48.6)
Gaskets (BSC, BSF) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thin type (GRL, GRH) (*1) (*3)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	-	+2 (+0.08)	+2 (+0.08)	-	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)
Grounding rings thin type (GRL, GRH) and gaskets (BSC, BSF) (*1) (*3)			+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	-	+8 (+0.31)	+8 (+0.31)	-	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)
Grounding rings thick type (GRN, GRJ) (*1) (*4)			-	-	-	-	+6 (+0.24)	-	+6 (+0.24)	+6 (+0.24)	-	+6 (+0.24)	-	-	+6 (+0.24)	-	+6 (+0.24)	-	+6 (+0.24)
Grounding rings thick type (GRN, GRJ) and gaskets (BSC, BSF) (*1) (*4) (*5)			-	-	-	-	+12 (+0.47)	-	+12 (+0.47)	+12 (+0.47)	-	+12 (+0.47)	-	-	+12 (+0.47)	-	+12 (+0.47)	-	+12 (+0.47)

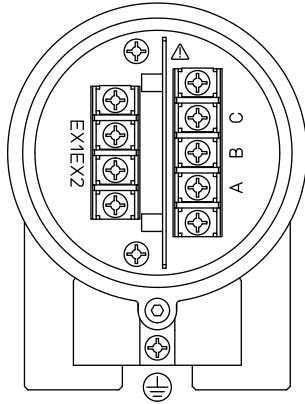
- *1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets. Also, the thickness of customer supplied gaskets should be added for getting the total lay length.
- *2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- *3: These grounding rings (GRL, GRH) are not applied to lining code H but for U and D.
- *4: These grounding rings (GRN, GRJ) are applied only to lining code H.
- *5: When applying these grounding rings (GRN, GRJ), gaskets supplied by customer are necessary. For sizes up to 125 mm (5 in.), recommended thickness of the gasket is 2 mm (0.08 in.) per one, bringing 4 mm (0.16 in.) per two, and for sizes 150 mm (6 in.) and above, it is 3 mm (0.12 in.) per one, bringing 6 mm (0.24 in.) per two, to be additionally added for getting the total lay length.

Terminal Configuration and Wiring

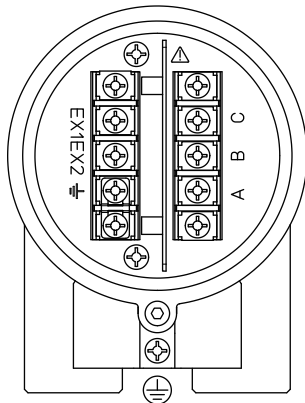
Remote Sensor:

<To be wired to Remote Transmitter>

Non Explosion Protection Use



Explosion Protection Use



Terminal Symbol	Description
A B C	Flow Signal Output
EX1 EX2	Excitation Current Input
⊕	Protective Grounding (Outside of the terminal box)
⊕	Functional Grounding

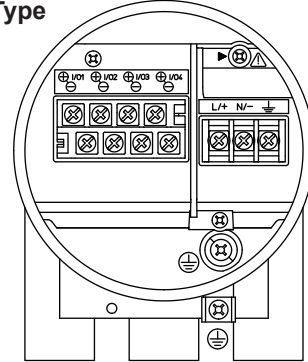
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Note: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached.

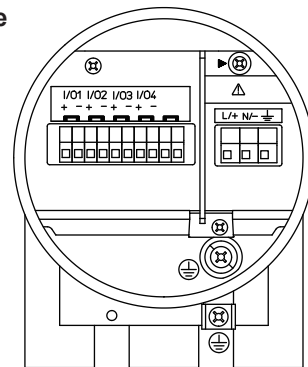
Integral Flowmeter:

<To be wired to Power Supply and I/Os>

M4 Screw Type



Clamp Type



Terminal Symbol	Description
▶	Shorting Screw (Need to be fixed for normal operation)
⊕	Functional Grounding
N/- L/+	Power Supply
I/O4 - I/O4 + I/O3 - I/O3 + I/O2 - I/O2 + I/O1 - I/O1 +	Selected Input/Output
⊕	Protective Grounding (Inside and outside of the terminal box)

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