

# Drawings

ADMAG TI Series  
AXW Magnetic Flowmeter  
[Size: 25 to 200 mm (1 to 8 in.)]  
Wafer Type Replacement Model  
Polyurethane Rubber Lining (Wafer)



SD 01E24D01-02EN

Unit: mm (approx. in.)

Size 25 to 100 mm (1 to 4 in.)

AXW025

AXW040

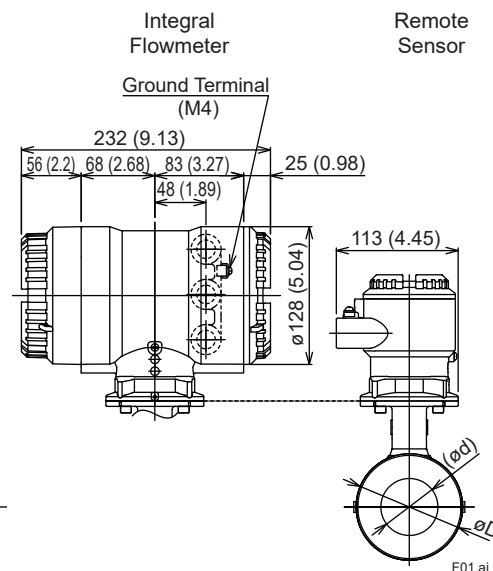
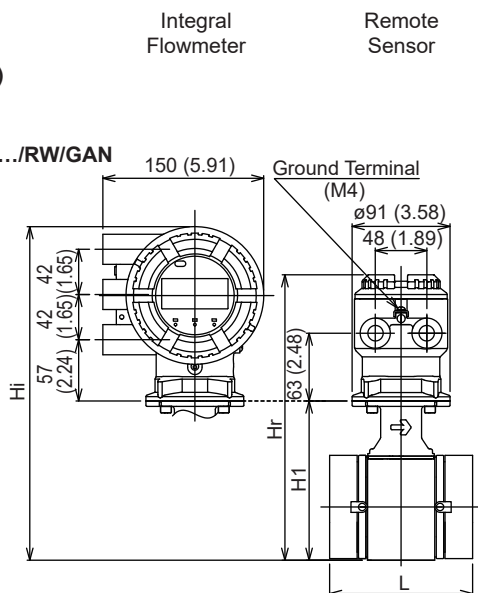
AXW050 -□□□□A□□A.../RW/GAN

AXW080

AXW100

Size Code

Process  
Connection  
Code  
Lining Code



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

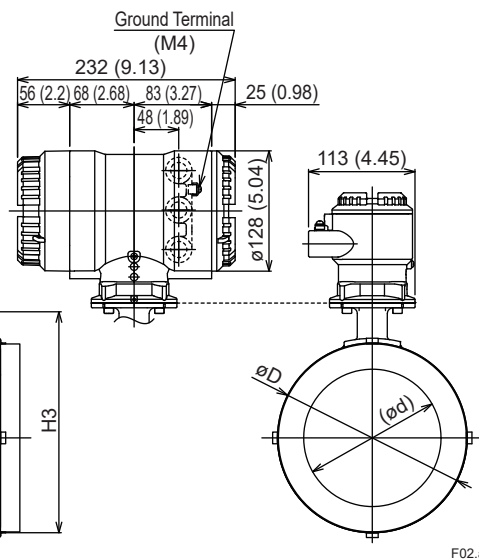
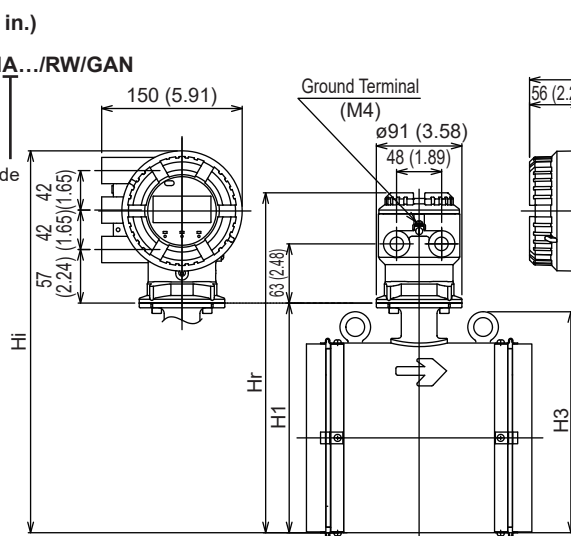
AXW150

AXW200

-□□□□A□□A.../RW/GAN

Size Code

Process  
Connection  
Code  
Lining Code



Unless otherwise specified, difference in the dimensions are specified as : General tolerance =  $\pm$  (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 |                |                |                |                 | AA1, AJ1        | AA2, AJ2        | AA1, AJ1        | AA2, AJ2        |
|-------------------------------------|-----------------------------------------------------------------------|----|--------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                     |                                                                       |    | -                  | -              | -              | AG1            | -               | AG1             | -               | AG1             | -               |
|                                     | Size Code                                                             |    | 025                | 040            | 050            | 080            | 100             | 150             | 150             | 200             | 200             |
|                                     | Size                                                                  |    | 25<br>(1)          | 40<br>(1.5)    | 50<br>(2)      | 80<br>(3)      | 100<br>(4)      | 150<br>(6)      | 150<br>(6)      | 200<br>(8)      | 200<br>(8)      |
| Remote Sensor<br>Integral Flowmeter | Lining Code                                                           |    | U                  | U              | U              | U              | U               | U               | U               | U               | U               |
|                                     | Lay Length (*1)<br>(Including The Thickness<br>Of The Grounding Ring) | L  | 93<br>(3.66)       | 106<br>(4.17)  | 120<br>(4.72)  | 160<br>(6.30)  | 180<br>(7.09)   | 230<br>(9.06)   | 230<br>(9.06)   | 300<br>(11.81)  | 300<br>(11.81)  |
|                                     | Outer Diameter                                                        | øD | 68<br>(2.66)       | 86<br>(3.39)   | 99<br>(3.90)   | 129<br>(5.08)  | 155<br>(6.10)   | 202<br>(7.95)   | 202<br>(7.95)   | 252<br>(9.92)   | 252<br>(9.92)   |
|                                     | Grounding Ring<br>Inner Diameter                                      | ød | 27<br>(1.06)       | 40<br>(1.57)   | 52<br>(2.05)   | 81<br>(3.19)   | 102<br>(4.02)   | 147.3<br>(5.80) | 147.3<br>(5.80) | 198.9<br>(7.83) | 198.9<br>(7.83) |
|                                     | Height                                                                | H1 | 110<br>(4.33)      | 129<br>(5.08)  | 148<br>(5.83)  | 175<br>(6.89)  | 201<br>(7.91)   | 244<br>(9.62)   | 262<br>(10.31)  | 294<br>(11.59)  | 312<br>(12.28)  |
|                                     | Height                                                                | H3 | -                  | -              | -              | -              | -               | 235<br>(9.25)   | 235<br>(9.25)   | 285<br>(11.22)  | 285<br>(11.22)  |
| Remote Sensor                       | Maximum<br>Height                                                     | Hr | 227<br>(8.94)      | 246<br>(9.69)  | 265<br>(10.43) | 292<br>(11.50) | 318<br>(12.52)  | 362<br>(14.24)  | 380<br>(14.96)  | 412<br>(16.21)  | 430<br>(16.93)  |
|                                     | Approx. Weight,<br>Unit: kg (lb) (*2)                                 |    | 2.9<br>(6.39)      | 3.8<br>(8.38)  | 4.9<br>(10.80) | 7.0<br>(15.43) | 8.8<br>(19.40)  | 18<br>(39.68)   | 18<br>(39.68)   | 28<br>(61.73)   | 28<br>(61.73)   |
|                                     | Maximum<br>Height                                                     | Hi | 272<br>(10.71)     | 291<br>(11.46) | 310<br>(12.20) | 337<br>(13.27) | 363<br>(14.29)  | 406<br>(16.00)  | 424<br>(16.69)  | 456<br>(17.97)  | 474<br>(18.66)  |
| Integral Flowmeter                  | Approx. Weight,<br>Unit: kg (lb)                                      |    | 5.5<br>(12.13)     | 6.3<br>(13.89) | 7.4<br>(16.31) | 9.6<br>(21.16) | 11.3<br>(24.91) | 20<br>(44.09)   | 20<br>(44.09)   | 31<br>(68.34)   | 31<br>(68.34)   |
|                                     | Gaskets (BSC, BSF) (*1)                                               |    | +6<br>(+0.24)      | +6<br>(+0.24)  | +6<br>(+0.24)  | +6<br>(+0.24)  | +6<br>(+0.24)   | +6<br>(+0.24)   | +6<br>(+0.24)   | +6<br>(+0.24)   | +6<br>(+0.24)   |

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional 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.

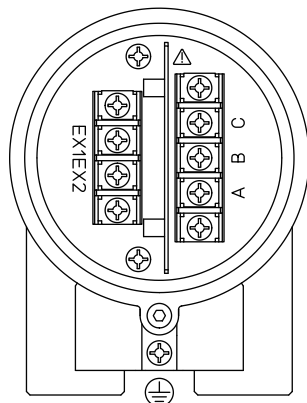
## Terminal Configuration and Wiring

For Communication and I/O Suffix Code P0(EtherNet/IP), read SD 01E21C02-01EN.

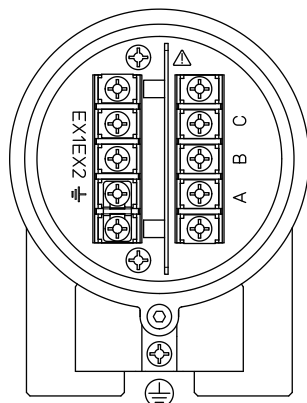
### Remote Sensor:

<To be wired to Remote Transmitter>

#### Non Explosion Protection Use



#### Explosion Protection Use



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

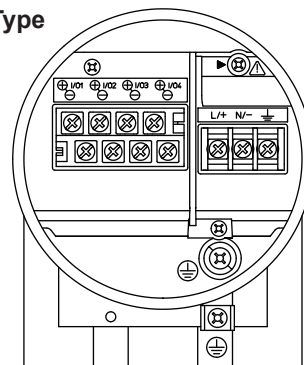
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Note: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached.

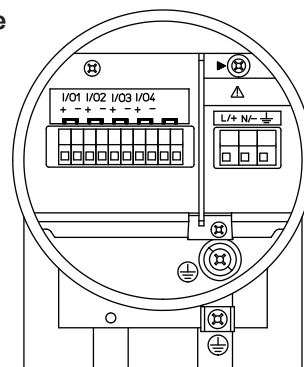
### Integral Flowmeter:

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

#### M4 Screw Type



#### Clamp Type



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

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