



WET GAS METER

- For minute flow, experimentation **WS**

- For experimentation, environmental measurement..... **W-NK**

- For large flow **W-NT**

- For high pressure **W-NH**

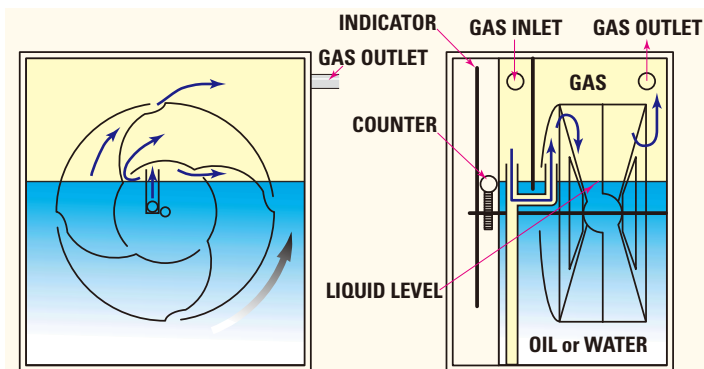
JCSS
JCSSL 0126

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The principle and structure of wet gas meters

The gas enters through the inlet, and is passed into the drum, on the surface of the liquid. The drum is separated into four chambers. The gas flows from the blow-in tube, through the drum and to the outlet. The flow of gas displaces the liquid, causing the drum to turn. The revolutions of the drum are conducted to the accumulating mechanism and analogue needle, showing the amount flowing through the meter.

WS For minute flow, experimentation



- Feature** Liquid level adjustment: Semi-automatic overflow
Material Casing: Aluminium alloy & Poly-butylene-terephthalate (PBT) & Poly-carbonate (PC)
 Measurement Drum: Hard vinyl chloride(R-PVC) & Stainless steel (SUS)
 Counter parts: Brass & Poly-acetal-resin (POM)

| | |
|------------------------------|---------------|
| Pressure loss | 150Pa |
| Operating Pressure Limits | 0kPa to 10kPa |
| Operating Temperature Limits | 4°C to 40°C |

Accuracy(repeatability) : $\pm 0.1\%$ (Standard deviation) ※ All flow ranges.

WS-1P

| Model | Measuring Range | Drum Capacity (L) | One Revolution (L) | Minimum Scale (mL) | Connector (inch) | Dimensions (mm) | Weight(kg) (with Filled Water) |
|---------|--------------------------|-------------------|--------------------|--------------------|------------------|-----------------|--------------------------------|
| WS-1P-L | 0.016~5L/min (1~300L/h) | 1 | 1 | 5 | $\phi 9$ | W214 D223 H260 | 2.3(4.9) |
| WS-1P | 0.16~10L/min (10~600L/h) | 1 | 1 | 5 | $\phi 11$ | W214 D223 H260 | 2.3(4.9) |

●Pulse output can be installed. ●Manometer can be installed.

W-NK For experimentation, environmental measurement



Anti Corrosion type BE (For environmental measurement)

Casing, Measurement Drum, other parts: Stainless steel(SUS 304)
 Jointing: Soldering, Argon Weld

| | |
|------------------------------|---------------|
| Pressure loss | 150Pa |
| Operating Pressure Limits | 0kPa to 10kPa |
| Operating Temperature Limits | 4°C to 50°C |

Accuracy(repeatability) : More than 1/2 Qmax $\pm 0.15\%$ (Standard deviation)
 Less than 1/2 Qmax $\pm 0.1\%$ (Standard deviation)

W-NK-5BE

| Model | Measuring Range (L) | Drum Capacity (L) | One Revolution (L) | Minimum Scale (mL) | Connector (mm) | Dimensions (mm) | Weight(kg) (with Filled Water) |
|------------|--------------------------------|-------------------|--------------------|--------------------|----------------|-----------------|--------------------------------|
| W-NK-0.5BE | 0.016~ 5L/min (1 ~ 300L/h) | 0.5 | 0.5 | 1 | $\phi 9.5$ | W288 D198 H235 | 4.8(7.2) |
| W-NK-1BE | 0.033~ 10 L/min (2 ~ 600L/h) | 1 | 1 | 1 | $\phi 9.5$ | W318 D218 H263 | 5.8(9.5) |
| W-NK-2BE | 0.066~ 20 L/min (4 ~ 1200L/h) | 2 | 2 | 5 | $\phi 13$ | W360 D262 H317 | 8.6(14.3) |
| W-NK-2.5BE | 0.083~ 25 L/min (5 ~ 1500L/h) | 2.5 | 5 | 20 | $\phi 13$ | W360 D262 H317 | 8.8(14.5) |
| W-NK-5BE | 0.16 ~ 50 L/min (10 ~ 3000L/h) | 5 | 5 | 10 | $\phi 19$ | W448 D305 H399 | 16.4(30.8) |
| W-NK-10BE | 0.33 ~100 L/min (20 ~ 6000L/h) | 10 | 10 | 20 | $\phi 25$ | W537 D372 H500 | 29 (56.7) |

●Pulse output can be installed. ●Manometer can be installed.

W-NT For large flow



W-NTDa-50A

Standard type A

Casing: Rolled steel for general structure (SS)
 Measurement Drum: Stainless steel (SUS)
 Other parts: Brass
 Jointing: Soldering

Standard type B

Casing, Measurement Drum and other parts: Stainless steel(SUS)
 Jointing: Soldering

| | |
|------------------------------|---------------|
| Pressure loss | 150Pa |
| Operating Pressure Limits | 0kPa to 20kPa |
| Operating Temperature Limits | 4°C to 50°C |

Accuracy(repeatability) : More than 1/2 Qmax ±0.15% (Standard deviation)
 Less than 1/2 Qmax ±0.1% (Standard deviation)

| Model | Measuring Range | Drum Capacity (L) | One Revolution (L) | Minimum Scale (mL) | Gas Tube (inch) | Dimensions (mm) | Weight(kg) (with Filled Water) |
|----------|-----------------------------------|-------------------|--------------------|--------------------|--------------------------------------|-----------------|--------------------------------|
| W-NT-20 | 0.83 ~ 166 L/min (50 ~ 10000L/h) | 20 | 20 | 100 | 32A(1 ¹ / ₄ B) | W576 D561 H 695 | 100(142.6) |
| W-NT-25 | 1.6 ~ 200 L/min (100 ~ 12000L/h) | 25 | 50 | 200 | 40A(1 ¹ / ₂ B) | W576 D611 H 695 | 103(149.5) |
| W-NT-50 | 2.5 ~ 383 L/min (150 ~ 23000L/h) | 50 | 50 | 200 | 50A(2B) | W720 D712 H 871 | 150(255.2) |
| W-NT-100 | 5 ~ 750 L/min (300 ~ 45000L/h) | 100 | 100 | 500 | 65A(2 ¹ / ₂ B) | W908 D895 H1099 | 305(521) |

●Pulse output can be installed. ●Includes 3.6kPa manometer.



W-NH-1B

W-NH For high pressure

Material Casing, Measurement Drum, other parts: Stainless steel (SUS 304)
 Argon weld

| | |
|------------------------------|----------------------|
| Pressure loss | 150Pa |
| Operating Pressure Limits | -0.097MPa to 0.97MPa |
| Maximum Pressure Tolerance | 1.45MPa |
| Operating Temperature Limits | 4°C to 50°C |

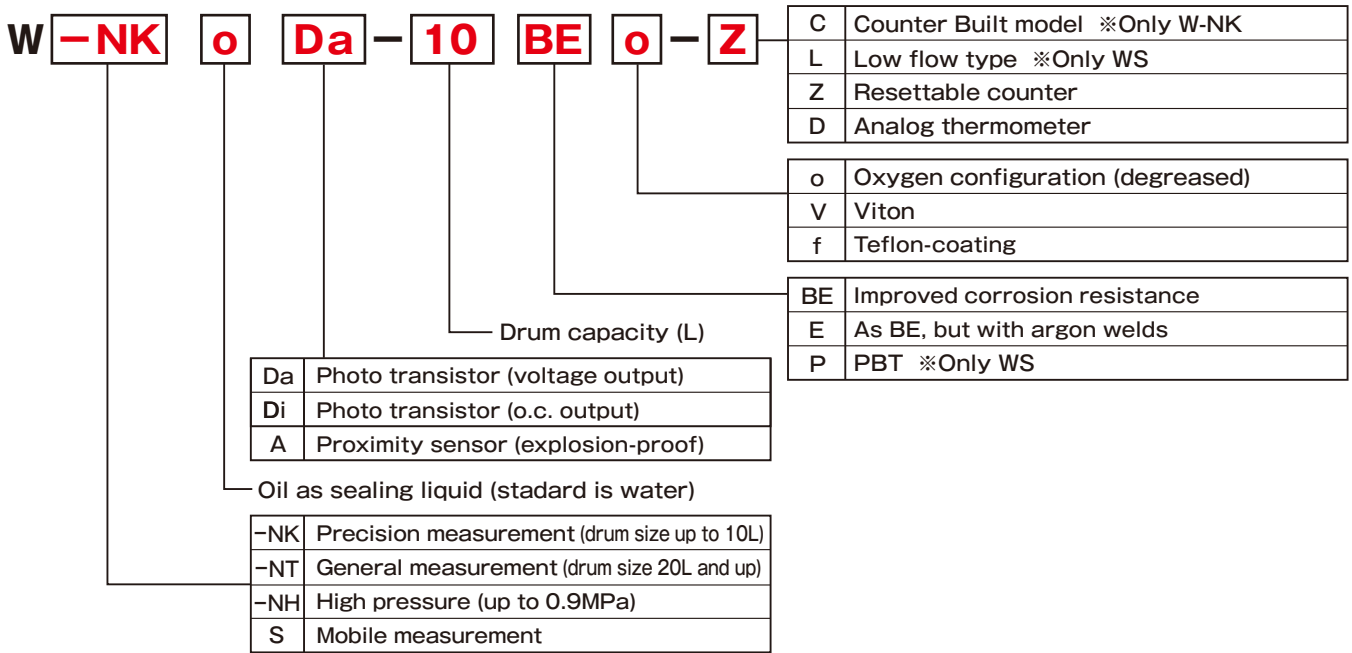
Accuracy(repeatability) : More than 1/2 Qmax ±0.15% (Standard deviation)
 Less than 1/2 Qmax ±0.1% (Standard deviation)

| Model | Measuring Range | Drum Capacity (L) | One Revolution (L) | Minimum Scale (mL) | Gas Tube (inch) | Dimensions (mm) |
|-----------|-----------------------------------|-------------------|--------------------|--------------------|-----------------|-----------------|
| W-NH-1B | 0.033 ~ 8.3L/min (2 ~ 500L/h) | 1 | 1 | 5 | ※ φ 7 | W350 D315 H 405 |
| W-NH-5B | 0.16 ~ 41.6L/min (10 ~ 2500L/h) | 5 | 5 | 10 | ※ φ 9.6 | W455 D390 H 525 |
| W-NH-10B | 0.33 ~ 83 L/min (20 ~ 5000L/h) | 10 | 10 | 20 | ※ φ 12.7 | W525 D525 H 590 |
| W-NH-20B | 1 ~ 166.6L/min (60 ~ 10000L/h) | 20 | 20 | 100 | 32A(1 1/4B) | W650 D620 H 670 |
| W-NH-25B | 1.6 ~ 200 L/min (100 ~ 12000L/h) | 25 | 50 | 200 | 40A(1 1/2B) | W650 D680 H 670 |
| W-NH-50B | 2.5 ~ 383.3L/min (150 ~ 23000L/h) | 50 | 50 | 200 | 50A(2B) | W740 D790 H 850 |
| W-NH-100B | 3.33 ~ 750 L/min (200 ~ 45000L/h) | 100 | 100 | 500 | 65A(2 1/2B) | W920 D935 H1020 |

※Nylon Tube outer diameter (mm)

●Pulse output can be installed. ●Includes pressure gauge.

Model overview



Optional functions and Accessories



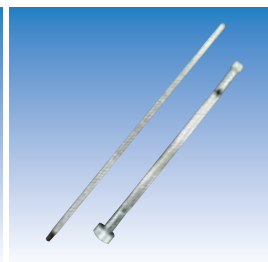
STF Digital Counter



SUS Intelligent Counter



Temp. Sensor Indicator



Thermometer Protecting tube



Explosion-proof pulse system



Pressure Gauge



Pressure Sensor



1kPa 3.6kPa Manometer



Carrying Case



Corrosion Inhibitor

Notice and Request

- Gases consisting of e.g. O₂ or H₂ will require special configuration.
- Please contact us about specification, repair or calibration.
- Specifications are subject to change without prior notice.



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