

### 3. 배전반용 전압계 (Panel & Switch-board Volt Meter)



TYPE : WY-R □ □



TYPE : WY-S □ □



TYPE : WY-SH □ □



TYPE : WY-W □ □

#### ● Specifications

· DC Volt meter

Type	Size(mm)	Input	Operating Principle	Class (%)	Burden (VA)	Weight(g)	Dimension	
WY-R05VD	50×50	DC 50mV to 750V		±2,5	1kΩ /V	100	Referto Page 220	
WY-R06VD	60×60					100		
WY-R08VD	80×80					160		
WY-R10VD	100×80					160		
WY-S47VD	47×47			±1,5		120		
WY-S72VD	72×72					160		
WY-S96VD	96×96					300		
WY-SH96VD	96×96			±1,0 ±1,5		380		
WY-W08VD	80×80					300		Referto Page 221
WY-W11VD	110×110					400		

· AC Volt meter

Type	Size(mm)	Input	Operating Principle	Class (%)	Burden (VA)	Weight(g)	Dimension	
WY-R05VA	50×50	10 to 600V		±2,5	0,5	100	Referto Page 220	
WY-R06VA	60×60					100		
WY-R08VA	80×80					160		
WY-R10VA	100×80					160		
WY-S47VA	47×47			±1,5		120		
WY-S72VA	72×72					160		
WY-S96VA	96×96					300		
WY-SH96VA	96×96			±1,0 ±1,5		380		
WY-W08VA	80×80					280		Referto Page 221
WY-W11VA	110×110					400		

· Option #1 (input of DC Volt meter)

Rated input(D,C)		
Scale value	Remark	
Direct (직가)	50mV, 60mV, 100mV	internal multiple
	1V~750V	
DC1,0mA	750V Over	Ext. multiple

· Option #2 (input of AC Volt meter)

Input(A)		Frequency	Remark
Direct (직가)	10V ~ 600V	50Hz or 60Hz	AC150V or AC300V
With V,T	110V / 220V		

### ● Description

- 본 계측기는 정류형 (교류), 가동 Coil 형 (직류) 으로 교류 고압인 경우에는 계기용 변압기(V.T) 를 외부에 부착 사용합니다.

### ● 직류 전압계 DC Volt meter

- DC 750V 이상의 회로에는 F.S 1mA의 계측기에 외부 배율기를 부착 사용합니다.

### ● 교류 전압계 AC Volt meter

- 전압계에 V.T 를 사용할 경우의 F.S 는 150V 또는 300V 로 제작함을 원칙으로 합니다. 따라서 계기의 최대 눈금치는 31.2kV, 9000V, 4500V, 600V 등으로 표시되며 V.T 를 사용하지 않을 경우에는 150V, 300V, 600V 등 읽기에 편리한 눈금치로 정한다.
- 교류 전압을 원거리 송전할 경우에는 Transducer 와 직류계기를 조합하여 사용하십시오.  
T/D 출력과 직류 계측기의 입력을 일치시켜 사용하십시오.

### ● Description

- The types of operating principle of voltmeter are the rectifier type (A.C), the moving coil type (DC). The voltmeter is used with a potential transformer externally mounted in case of high voltage.

### ● DC Volt meter

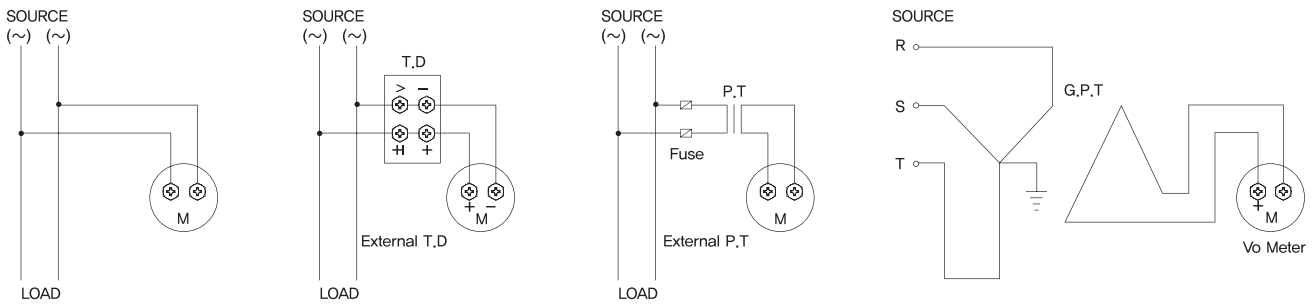
- For higher ranges than 750V, use external multiplier or voltage-dividing multiplier with a 1mA instrument.

### ● AC Volt meter

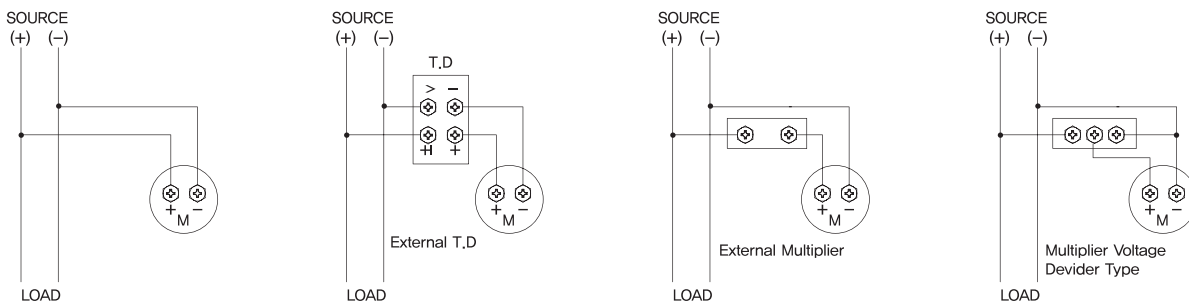
- Full scale of voltmeter. When use the V.T the standard calibration value of volt meters are 150V and/or 300V, therefore, the full scale of volt meters are indicated the 31.2kV, 9000V, 4500V and 600V etc.
- When making remote measurement the DC voltage, the meter should be used the DC meter with the transducer (T/D)  
It is noted that the input of DC meter and the output of transducer.

### ● Outside Connection Diagram

#### □ A.C



#### □ D.C



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HV / VT · MOF 고압변압기 절연물

LV / CT 저압변류기

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ELD 누전경보기

GFR 지락계전기

ZCT 영상변류기

METER 지시전기계기

SPD 서지보호기

SHUNT 션트

## ● Dimension

### · WY-R Type Dimension

(Unit = mm)

Front view																												
Rear view	<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>E</th> <th>Ø</th> </tr> </thead> <tbody> <tr> <td>WY-R08</td> <td>80</td> <td>80</td> <td>36</td> <td>15</td> <td>34</td> <td>30</td> <td>64</td> <td>65</td> </tr> <tr> <td>WY-R10</td> <td>100</td> <td>80</td> <td>36</td> <td>15</td> <td>36</td> <td>28</td> <td>80</td> <td>65</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	E	Ø	WY-R08	80	80	36	15	34	30	64	65	WY-R10	100	80	36	15	36	28	80	65
Type	W	H	D	A	B	C	E	Ø																				
WY-R08	80	80	36	15	34	30	64	65																				
WY-R10	100	80	36	15	36	28	80	65																				

### · WY-R Type Dimension

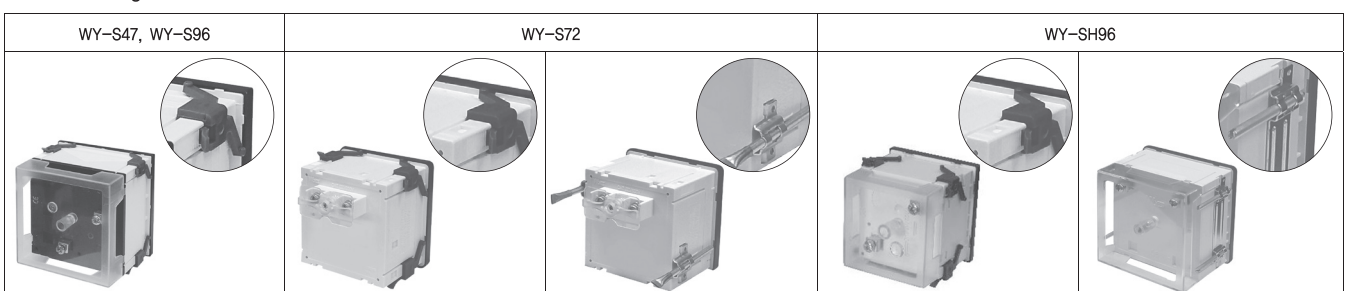
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Rear view	<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>E</th> <th>Ø</th> </tr> </thead> <tbody> <tr> <td>WY-R05</td> <td>51</td> <td>51</td> <td>35</td> <td>14</td> <td>18</td> <td>18</td> <td>36</td> <td>44</td> </tr> <tr> <td>WY-R06</td> <td>60</td> <td>60</td> <td>35</td> <td>14</td> <td>24</td> <td>24</td> <td>48</td> <td>54</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	E	Ø	WY-R05	51	51	35	14	18	18	36	44	WY-R06	60	60	35	14	24	24	48	54
Type	W	H	D	A	B	C	E	Ø																				
WY-R05	51	51	35	14	18	18	36	44																				
WY-R06	60	60	35	14	24	24	48	54																				

### · WY-S Type Dimension

(Unit = mm)

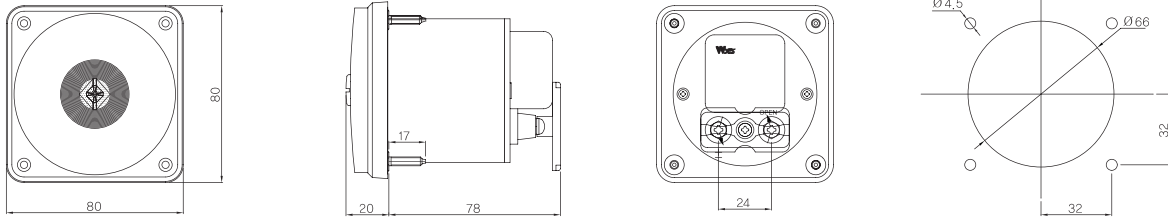
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Rear view	<table border="1"> <thead> <tr> <th>Type</th> <th>W</th> <th>H</th> <th>D</th> <th>A</th> <th>B</th> <th>C</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>WY-S47</td> <td>48</td> <td>48</td> <td>44</td> <td>5</td> <td>44</td> <td>12</td> <td>44,5</td> <td>44,5</td> </tr> <tr> <td>WY-S72</td> <td>72</td> <td>72</td> <td>67</td> <td>5</td> <td>44</td> <td>22</td> <td>68</td> <td>68</td> </tr> <tr> <td>WY-S96, SH96</td> <td>96</td> <td>96</td> <td>91</td> <td>5</td> <td>44</td> <td>22</td> <td>92</td> <td>92</td> </tr> </tbody> </table>	Type	W	H	D	A	B	C	X	Y	WY-S47	48	48	44	5	44	12	44,5	44,5	WY-S72	72	72	67	5	44	22	68	68	WY-S96, SH96	96	96	91	5	44	22	92	92
Type	W	H	D	A	B	C	X	Y																													
WY-S47	48	48	44	5	44	12	44,5	44,5																													
WY-S72	72	72	67	5	44	22	68	68																													
WY-S96, SH96	96	96	91	5	44	22	92	92																													

### · Mounting Introduction



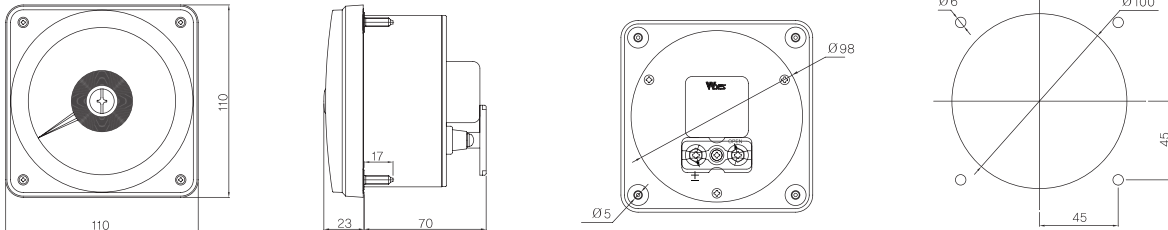
## ● Dimension

### • WY-W08 Type Dimension



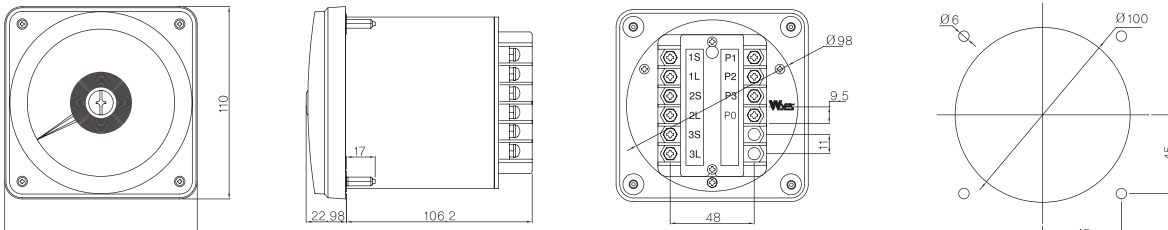
Terminal: M4

### • WY-W11 A, V Type Dimension



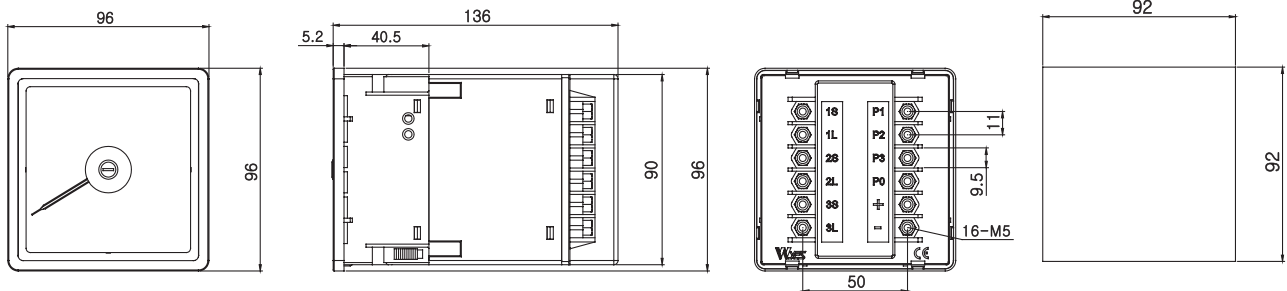
Terminal: M4

### • WY-W11 KW, var, PF Type Dimension



Terminal: M4

### • WY-SH96 KW, var PF Dimension

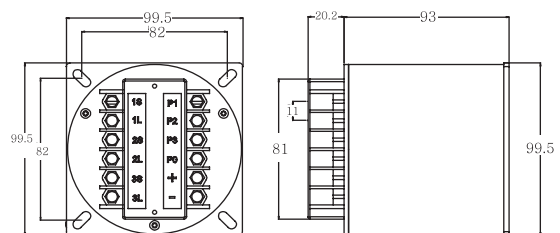


## ● 외부 변환기 사용

R, S, W08 타입의 Watt, var, Hz PF 계측기는 외부에 우측과 같은 변환기 (T/D) 를 사용합니다.

## ● External Transducers (For meter)

The Transducer for meter is used with the Watt, var and PF meter, etc., of the R type and S type or W08 type which it is external transducer.



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METER  
지시전기계기

SPD  
서지보호기

SHUNT  
셴트