

## DIGITAL PANEL BOARD METER

Multifunctional-Power Total Meter (96×96mm)



– 3A, 3V, Watt, W/h, var, var/h, PF, COS, Hz, THD, °C



본 제품은 종합적인 전력 상태를 표시하여주는 계기로 전압(V), 전류(A), 유효전력(W), 유효전력량(Wh), 무효전력(var), 무효전력량(varh), 역률(PF/COS), 주파수(Hz), 고주파(THD), 온도(°C) 각종의 상태 감시가 가능한 통신 장착용 종합 계측 계기입니다.

This product could be showed with comprehensive power condition (A, V, W, Wh, var, varh, PF, COS, Hz, THD, °C) and it is possible Multifunctional-Power Total Meter to observe each condition.

### ● Specifications

| ITEM                     | WYTM-200                                                         | WYTM-200C | WYTM-200E |
|--------------------------|------------------------------------------------------------------|-----------|-----------|
| Auxiliary supply voltage | AC 85~275V, DC100~300V, 3VA                                      |           |           |
| Wiring                   | 3P3W, 3P4W                                                       |           |           |
| Voltage input            | Direct phase-phase : 34 ~ 520 Vac<br>Direct phase-N : 20~300 Vac |           |           |
| Current input            | 0.02~6 Aac (INOM = 5 Aac)                                        |           |           |
| Frequency                | 45~65Hz                                                          |           |           |
| Communication port       | NON                                                              | RS485     | Ethernet  |
| Pulse output (DO1,DO2)   | Option : kWh (kvarh) Dry contact output                          |           |           |
| Operating temperature    | -20~50°C                                                         |           |           |
| Storage temperature      | -30~80°C                                                         |           |           |
| Protection rating        | IP41 (IP54 with cover film), back panel : IP20                   |           |           |
| Dimension                | panel 96x96mm                                                    |           |           |
| Weight                   | 0.3Kg                                                            |           |           |

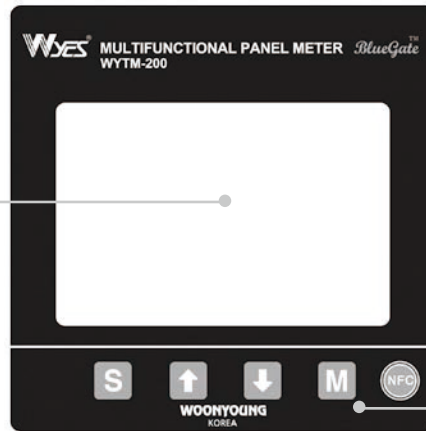
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## ● Front panel

## ① Display mode

- VLL : Line voltage
- VLN : Phase voltage
- A : Line current
- W : Active power
- Wh : Active power energie
- var : Reactive power
- varh : Reactive power energie
- PF/cos : Power factor
- THD : Harmonic distortion
- Hz : Frequency
- °C : Ambient temperature



## ④ KEY Part

- Parameter Setting

## ● Parameter Setting Table

| #  | Parameter group                                                                                                                                                                                                       | Range                                                                       | Default             | Comment                                                                                                                                                                                                                                                                                                                                                                               |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00 | lock                                                                                                                                                                                                                  | LOC / OPN                                                                   | OPN                 | see Instrument Setup Locking / Unlocking                                                                                                                                                                                                                                                                                                                                              |
| 01 | "X/5A" models : CT-ratio<br>row 2 : nominal primary current<br>row 3 : nominal secondary current<br>"S" and "P" models :<br>row 2 : nominal primary current range (fixed)<br>row 3 : multiplier                       | primary : 1A ÷ 10 kA<br>secondary : 5A / 1A                                 | LOC / OPN           | secondary current selection with the <b>M</b> key                                                                                                                                                                                                                                                                                                                                     |
| 02 | connection type                                                                                                                                                                                                       | 3Y / 3D / 3A                                                                | 3Y                  |                                                                                                                                                                                                                                                                                                                                                                                       |
| 04 | connection mode: direct (— — —) or VT-ratio:<br>row 2 : primary U [ kV ]<br>row 3 : secondary U (0.1 kV fixed)                                                                                                        | primary: 0.1kV ÷ 1MV                                                        | direct (— — —)      |                                                                                                                                                                                                                                                                                                                                                                                       |
| 05 | INOM, UNOM<br>row 2 : INOM [ Hz ]<br>row 3 : UNOM [ V / kV ]                                                                                                                                                          | 50 / 60 Hz<br>50 V ÷ 1MV                                                    | 50<br>230           | UNOM specification depending on connection mode :<br>— direct : line-to-neutral<br>— via VT : line-to-line                                                                                                                                                                                                                                                                            |
| 06 | ΣPNOM [ kVA / MVA ]                                                                                                                                                                                                   | 1 kVA ÷ 999 MVA                                                             | —                   | —                                                                                                                                                                                                                                                                                                                                                                                     |
| 07 | averaging period<br>row 2 : for U/I group<br>row 3 : for P/Q/S group                                                                                                                                                  | 0.01 ÷ 60<br>(1 sec ÷ 60 mins)                                              | 1 min<br>15 min     | floating window type averaging method applied as default;<br>thermal method indicated with symbol ▲                                                                                                                                                                                                                                                                                   |
| 08 | avg period for ΣPavgmaxE, EI, meter d, mode<br>line 2 : averaging period for ΣPavgmaxE,<br>line 3 : Electricity meter display mode                                                                                    | 0.01 ÷ 60<br>(1 sec ÷ 60 mins)<br>"4E+Pmax" / "8E"                          | 15 min<br>"4E+Pmax" | floating window type averaging method applied                                                                                                                                                                                                                                                                                                                                         |
| 09 | fund, harmonic PF display format                                                                                                                                                                                      | cos / tan / fi                                                              | cos                 |                                                                                                                                                                                                                                                                                                                                                                                       |
| 10 | backlight                                                                                                                                                                                                             | AUT / ON                                                                    | ON                  | AUT-mode : the backlight is switched off automatically after approx. 5 minutes if no key is pressed to decrease power dissipation,                                                                                                                                                                                                                                                    |
| 11 | output setup<br>row 2 : output DO1<br>row 3 : output DO2<br>standard type : "—O—"<br>impulse type : pulses / kWh(kvarh)<br>control energy symbol :<br>• none ... ΣEP+<br>• — ... ΣEP—<br>• — ... ΣEQL<br>• — ... ΣEQC | "— — —" = off<br>"—O—" = standard output<br>0.001 ÷ 999 =<br>impulse output | — — —<br>( off )    | control energy selection with the <b>M</b> key<br>Standard type output can be set via communication line only, not from instrument panel. Symbol ▲ indicates different setup of the alarm light A1 from the DO1 and the A2 from the DO2<br>If impulse type output set from instrument panel, the A1 and the A2 alarm lights are set identically as the DO1 and the DO2, respectively. |
| 15 | communication :<br>row 2 : address<br>row 3 : rate [ kBd ]                                                                                                                                                            | 1 ÷ 255<br>4.8 ÷ 115                                                        | 1<br>9.6            |                                                                                                                                                                                                                                                                                                                                                                                       |
| 16 | communication :<br>number of data bits and parity                                                                                                                                                                     | 8 / 9-n / 9-E / 9-0                                                         | 8                   | KMB / Modbus protocol automatic detection; for the KMB protocol set to "8"                                                                                                                                                                                                                                                                                                            |

트랜스포머

노이즈트랜스

무선전력계

전력조정기

스마트파워

노이즈필터

고조파필터

서지보호기

보호계전기

누전경보기

지락계전기

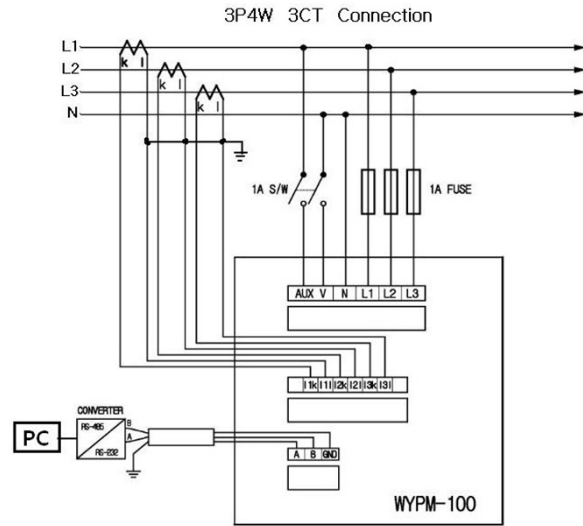
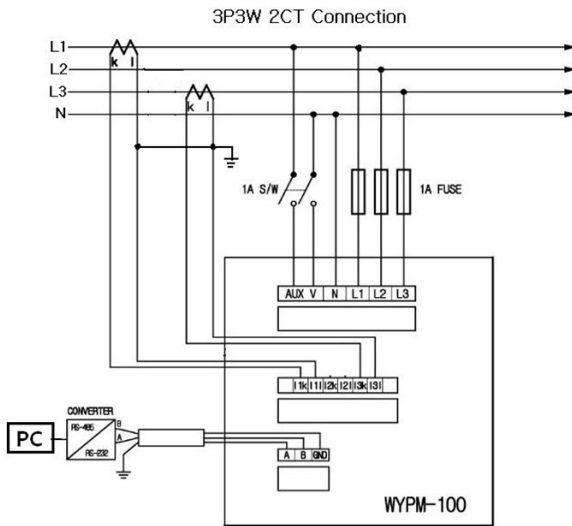
영상변류기

지식전기계기

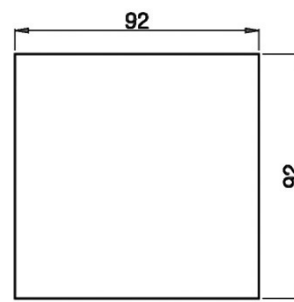
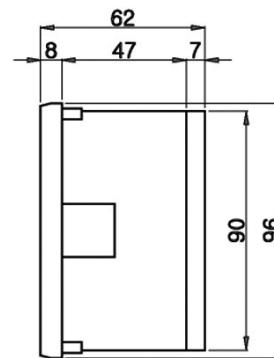
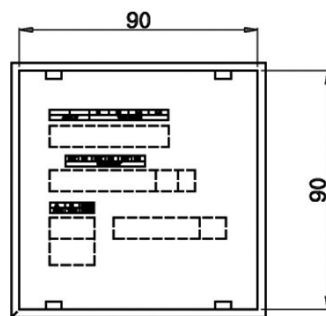
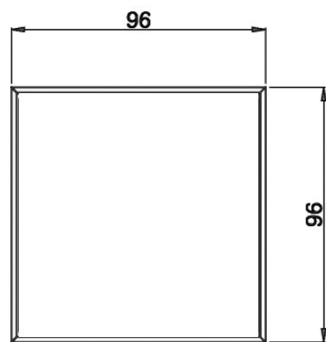
계기용변성기

FAN

### ● Connection Diagram



### ● Dimensions



Panel Cut-out

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