

# W27 Series

## Power Quality Analyzer



## Measurement

### Voltage

Phase, Line, Average

### Current

Phase, Average

### PF (Power Factor)

Phase, Average

### P (Active Power)

Phase, Total

### Q (Reactive Power)

Phase, Total

### S (Apparent Power)

Phase, Total

### Frequency

## Quality Measurement

### THD (Total Harmonic Distortion)

Phase Voltage

Current

### Harmonic – odd, even \*

Phase Voltage

Current

### Unbalance

Voltage

Current

\*: 2-15<sup>th</sup>: W2720

2-31<sup>th</sup>: W2730

## Demand

### Fixed Window, Sliding

### Maximum Demand

### Time Tag

### Reset

Manual: HMI, Modbus

Scheduled: Daily, Weekly, Monthly, Yearly

### Parameter

Total Active Power

Total Reactive Power

## Event Recorder

### Event Profile \*

### Reset

Manual: HMI, Modbus

### Time Tag

### Parameter

Power On

Power Off

Alarm Activation/Deactivation

\*: Last 64: W2710

Last 128: W2720, W2730

Last 128: W2720, W2730

## Alarm

|                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pickup/Dropout Value                                                                                                                                                                                                  |
| Pickup/Dropout Delay<br>Res:0.1sec                                                                                                                                                                                    |
| Selectable Output (0 – 7)                                                                                                                                                                                             |
| Time Tag                                                                                                                                                                                                              |
| Reset<br>Manual: HMI, Modbus                                                                                                                                                                                          |
| Parameter<br>Over Voltage<br>Under Voltage<br>Over Current<br>Under Current<br>Over Active Power<br>Under Active Power<br>Over Reactive Power<br>Over Voltage Unbalance<br>Over Current Unbalance<br>Voltage Sequence |

## Accuracy

|                | W2710 | W2720 | W2730 |
|----------------|-------|-------|-------|
| Voltage        | 0.5   | 0.5   | 0.5   |
| Current        | 0.5   | 0.5   | 0.5   |
| Power Factor   | 0.5   | 0.5   | 0.5   |
| Active Power   | 1     | 1     | 1     |
| Reactive Power | 2     | 2     | 2     |
| Harmonic       | -     | 4     | 4     |
| Frequency      | 0.02  | 0.02  | 0.02  |

## Network Connection

|                                         |
|-----------------------------------------|
| Network Frequency<br>50 Hz              |
| CT<br>Primary: 5 – 2500<br>Secondary: 5 |
| Supported Network<br>4 Wire – Wye       |

## Input Rating

|                                          |
|------------------------------------------|
| Voltage – Phase to Neutral<br>40 – 300 V |
| Current<br>20 mA – 6 A                   |

## HMI

|                                                          |
|----------------------------------------------------------|
| Display<br>28 * 27 Graphic Dot Matrix<br>White Backlight |
| Keyboard<br>4 button                                     |

## Communication Port

### RS485

3 Terminal  
Modbus RTU  
Baud Rate: 1200 – 19200 b/s  
Endianness: Big, Little  
Format: Int, Float

## Input / Output

### Analog

Voltage: 3 Input, 6 Terminal  
Current : Galvanic Isolated

### Digital

Input: 1 Opto Isolated  
Output : 1 Opto Isolated

## External Module

|                      | Wa1 | Wa2 | Wa3 | Wa4 | Wa5 | Wa6 | Wa7 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|
| Relay digital output | 2   | 4   | -   | 2   | 2   | 2   | 2   |
| Digital input        | 2   | 2   | -   | 2   | 2   | 2   | 2   |
| Analog input         | -   | -   | -   | -   | 2   | 2   | 2   |
| Ethernet             | -   | -   | •   | •   | -   | •   | •   |
| Serial               | -   | -   | •   | •   | -   | •   | •   |



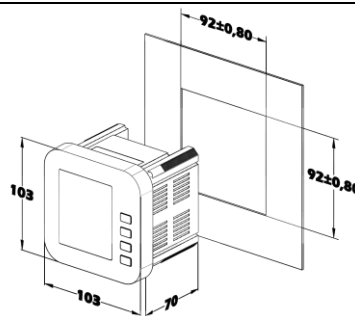
## Supply

### Switching Power Supply

AC: 80 – 265 V,  $\pm 10\%$ , DC: 100-300 V,  $\pm 10\%$

## Installation

### Front Panel Mount



## Environment

### Operating Temperature

-20 – 70 °C

### Storage Temperature

-30 – 80 °C

### IP Degree Of Operation

54 front panel

### Weight

400 – 410 gr