Smartcontrøller Electrical Excellence



USER MANUAL

ENERGY ANALYSER SMART VEN585

INTRODUCTION

PRODUCT OVERVIEW

The Smartcontroller Multi-Function Panel Meter SMART VEN585 is a state of the art intelligent panel meter, used not only in the electricity transmission and power distribution system but also in the power consumption measurement and analysis in high voltage intelligent power grid. This document provides operating, maintenance and installation instructions for the Smart controller SMART VEN585.

The unit measures and displays the Characteristics of single phase two wires and three phase four wires supplies, including voltage, frequency, current, power and active and reactive energy, imported or exported. Energy is measured in terms of kWh, kVarh. Maximum demand current can be measured over preset periods of up to 60 minutes. In order to measure energy, the unit requires voltage and current inputs in addition to the supply required to power the product. The requisite current input(s) are obtained via current transformers (CT).

The SMART VEN585 can be configured to work with a wide range of CTs, giving the unit a wide range of operation. Built-in interfaces provide pulse and RS585 Modbus RTU outputs.

UNIT CHARACTERISTICS

The Unit can measure and display:

- Line voltage and THD%
- (total harmonic distortion) of all phases
- 2~63rd Voltage Voltage IHD%(Individual Harmonic Distortion) of allPhases
- Line Frequency
- Currents, Current demands and current THD% of all phases
- 2~63rd Current IHD% of all Phases
- Active Power, reactive Power Aparent Power, Maximum Power denand And Power Factor.
- Active Energy Improted and exported
- Reactive energy imported and exported
- Energy or each phase

The unit has password-protected set-up screens for:

- Communication setting; modbus address, baud rate, parity, Stop bit
- CT setting CT 1 (Primary), CT2 (Secondary), CT rate
- PT setting PT 1 (Primary), PT2 (Secondary), PT rate
- Pulse setting: Pulse Output 1, Pulse rate, Pulse time
- Demand setting: Demand interval time , Display scroll time
- Time setting: back-lit time Display scroll time
- System Configuration: system type system connect Change Password Auto Display.

Configuration is password protected.

PULSE OUTPUT

Two pulse outputs indicate real-time energy measurement. Pulse output 1 is configurable, pulse output 2 is fixed to active energy, 3200imp/kWh.

Start-up Screens

The first screen lights all LED segments and can be used as a display LED check

The second screen indicates the software version of the unit. (the left picture is just for reference)

The unit performs a self-test and the screen indicates if the test is passed.

After a short delay, the default measurement screen appears.





BUTTONS AND DISPLAYS

Buttons Function

| Click | Press 2S | Buttons |
|--|---|--------------------------|
| > Displays power, voltage, current and energy information of each phase > Escape the menu | > Automatic Scroll display ON/OFF | Ph S ESC |
| > Display Voltage and current information of the selected system type. (3p4w, 3p3w and 1p2w) > Left side move. | > Individual Harmonic Distortion of Voltage up to 63rd | V/A |
| > Display power factor, frequency, Max. Demand. > Up page or add value | > Individual Harmonic Distortion of Current up to 63rd | MD [▲] PF Hz |
| > Display active power, reactive power and apparent power information of the selected system type. > Down page or reduce value | | P |
| > Display total / import / export active or reactive energy information of the selected system type. > Right side move. | > Set-up mode entry > Confirmation | E |

DISPLAY MODE SCREEN SEQUENCE

| Screen | PARAMETERS | Screen | PARAMETERS | Screen | PARAMETERS |
|--------|--|--------|--|--------|--|
| 1 | Phase 1 – Power Voltage Current kWh | 1 | Phase 1 – Power Voltage Current kWh | 1 | Phase 1 – Power Voltage Current kWh |
| 2 | Phase 2 – Power Voltage Current kWh | 2 | Phase 2 – Power Voltage Current kWh | | |
| 3 | Phase 3 – Power Voltage Current kWh | 3 | Phase 3 – Power Voltage Current kWh | | |
| 4 | Phase 1 – Power Voltage Current kVarh | 4 | Phase 1 – Power Voltage Current kVarh | 4 | Phase 1 – Power Voltage Current kVarh |
| 5 | Phase 2 – Power Voltage Current kVarh | 5 | Phase 2 – Power Voltage Current kVarh | | |
| б | Phase 3 – Power Voltage Current kVarh | б | Phase 3 – Power Voltage Current kVarh | | |

| Screen | PARAMETERS | Screen | PARAMETERS | Screen | PARAMETERS |
|--------|--|--------|--|--------|--------------------|
| 1 | Voltage L1-N Voltage L2-N Voltage L3-N | | | 1 | Voltage L1-N |
| 2 | Voltage L1-L2 Voltage L2-L3 Voltage L3-L1 | 1 | Voltage L1-L2 Voltage L2-L3 Voltage L3-L1 | | |
| 3 | Current L1 Current L2 Current L3 Current Neutral | 2 | Current L1 Current L2 Current L3 | 2 | Current L1 |
| 4 | THD% of Voltage L1 THD% of Voltage L2 THD% of Voltage L3 | 3 | THD% of Voltage L1-2 THD% of Voltage L2-3 THD% of Voltage L3-1 | 3 | THD% of Voltage L1 |
| 5 | THD% of Current L1 THD% of Current L2 THD% of Current L3 | 4 | THD% of Current L1 THD% of Current L2 THD% of Current L3 | 4 | THD% of Current L1 |
| 6 | Phase Sequence | 5 | Phase Sequence | | |

| Screen | PARAMETERS | Screen | PARAMETERS | Screen | PARAMETERS |
|--------|--|--------|--|--------|--|
| 1 | Total Power Factor Frequency | 1 | Total Power Factor Frequency | 1 | Total Power Factor Frequency |
| 2 | PF L1 PF L2 PF L3 | 2 | PF L1 PF L2 PF L3 | | |
| 3 | Max. DMD of Current L1 Max. DMD of Current L2 Max. DMD of Current L3 | 3 | Max. DMD of Current L1 Max. DMD of Current L2 Max. DMD of Current L3 | 2 | Max. DMD of Current L1 Max. DMD of Current L2 Max. DMD of Current L3 |
| 4 | Max. DMD of W Max. DMD of Var Max. DMD of VA | 4 | Max. DMD of W Max. DMD of Var Max. DMD of VA | 3 | Max. DMD of W Max. DMD of Var Max. DMD of VA |
| 1 | Active Power L1 Active Power L2 Active Power L3 | 1 | Active Power L1 Active Power L2 Active Power L3 | | |
| 2 | Reactive Power L1 Reactive Power L2 Reactive Power L3 | 2 | Reactive Power L1 Reactive Power L2 Reactive Power L3 | | |
| 3 | Apparent Power L1 Apparent Power L2 Apparent Power L3 | 3 | Apparent Power L1 Apparent Power L2 Apparent Power L3 | | |
| 4 | Total Active Power Total Reactive Power Total Apparent Power | 4 | Total Active Power Total Reactive Power Total Apparent Power | 1 | L1 Active Power L1 Reactive Power L1 Apparent Power |

| 1 | Total kWh | 1 | Total kWh | 1 | Total kWh |
|---|--------------|---|--------------|---|--------------|
| 2 | Total kVarh | 2 | Total kVarh | 2 | Total kVarh |
| 3 | Import kWh | 3 | Import kWh | 3 | Import kWh |
| 4 | Export kWh | 4 | Export kWh | 4 | Export kWh |
| 5 | Import kVarh | 5 | Import kVarh | 5 | Import kVarh |
| 6 | Export KVarh | 6 | Export KVarh | 6 | Export KVarh |

INDIVIDUAL HARMONIC DISTORTION

V/A Press the button

for 2 seconds to check Harmonic distortion

of Voltage 2~63rd Harmonic Distortion of Voltage



Press the Button press the Button for 2 seconds to check Harmonic distortion of Current 2~63rd Harmonic Distortion of Current



SETTING - UP



PASSWORD ENTRY

| Setting-up mode is password protected, so you must enter | DOCC |
|--|------|
| the correct password By firmly press the button E^{\prime} for 2 | |
| | |
| seconds, the password screen appears. | 1000 |
| The default password is 1000. | |
| | |
| If an incorrect password is entered, the display shows ERR. | |
| | |
| | |

COMMUNICATION

| The RS485 port can be used for communications using | | 582 |
|---|--|------|
| Modbus RTU protocol. Parameters such as Address, | | |
| Baud rate, Parity, Stop bit can be selected. | | Lünb |
| Long Press E to enter the address option. | | |
| | | |

ADDRESS

| An RS485 network can accommodate up to 255 different | |
|---|-------|
| devices, each identified by an address. | 562 |
| Modbus address range 001~247 | |
| Default 001 | Hddi' |
| Long press \overrightarrow{E} to enter the selection routine, the address setting will flash. Use \overrightarrow{P} and \overrightarrow{P} , \overrightarrow{E} to set the address | |
| with the range 001~247. And press $[E]$ for confirmation. | |

BAUD RATE

| Baud rate options: 2400 4800 9600 19200 38400 (bps). Default: 9600bps | SEE |
|--|-------------|
| From the Set-up menu, Use $\mathbb{P}_{\mathbb{P}}^{\mathbb{P}}$ and $\mathbb{P}_{\mathbb{P}}^{\mathbb{P}}$ o select the | 6HUd |
| Baud rate options. Long press E to enter | ggnn |
| the selection routine. | |
| The Baud Rate setting will flash. | |
| Use MD and P to choose Baud Rate | |
| | |
| | |
| | 582 |
| Example shows: | 585 8814 |
| Example shows: SET Baud rate 19200 (bps) | SEE BAUd |
| Example shows: SET Baud rate 19200 (bps) And long press E for confirmation. | SEE BRUd |
| Example shows: SET Baud rate 19200 (bps) And long press E, for confirmation. | 585 9500 |

PARITY

| Parity Options: NONE, EVEN, ODD. | |
|---|------------|
| Delault Pally . NONE | |
| Note that if parity is set to ODD or EVEN, Stop | 566 |
| Bits will be set to 1 and cannot be changed. | PAC PAC |
| From the Set-up menu, Use \mathbb{P} and \mathbb{P} to select | |
| the Parity options. Long press E to enter the | |
| selection routine. The Parity setting will flash. | |
| Use $\frac{MD}{PFHE}$ and \mathbf{P} to choose Parity. | |
| | |

| Example shows: Set Parity: EVEN And long press E for confirmation. Press Ph S to return the main set up menu. | SEE PRCI ELEN |
|--|---------------------|
| Example shows: Set Parity: Odd And long press E for confirmation. Press PhS to return the main set up menu | SEE PRCI Odd |

STOP BIT

| Stop Bit options: 1 or 2. Default Stop Bit : 1 Note that if parity is set to ODD or EVEN, Stop Bits will be set to 1 and cannot be changed. From the Set-up menu, Use and P to select the Stop Bit options. Long press E to enter the Stop Bit routine. The Stop Bit setting will flash. Use to p it choose Stop Bit | 5EE 5EOP 1 |
|--|------------------|
| Example shows Set Stop bit 2 And Long Press E, for confirmation. Press PhS to return the Communication set up menu. | SEE SEOP 2 |

СТ

| | 582 | |
|---|-----|--|
| From the main Set-up menu, Use and P to select the CT option. | ٤F | |
| | | |

CT 2

| Set secondary current input the meter Options: 5A or 1A Default CT2: 5A | 585 |
|--|---------|
| Long Press \overrightarrow{E} to enter the CT2 routine. Press \overrightarrow{E} for 2s, the CT2 setting will flash. Use $\overrightarrow{PFH2}$ and \overrightarrow{P} to choose CT2 with 5A or 1A. | 5 EFS |
| Example shows : Set CT2 1A | 5EE |
| And Long Press E for confirmation | 543 |

CT 1

| Set Primary current input the meter Options: 1~9999 Default CT1: 5A Long press E, to enter the CT1 routine. Press E, for 2s, the CT1 setting will flash. Use MD and P to choose CT1 with 1~9999. And Long Press E, for confirmation. | 582 6205 0005 |
|---|---------------------|
| Example Shows : Set CT1 100A And Press E, for confirmation. Press PhS to return the CT set up menu. | 582 621 0100 |

ΡΤ

| The PT option sets the secondary voltage of the voltage transformer (PT) that give into the meter and the PT rate between the primary | | |
|--|-----|--|
| voltage to the secondary voltage. | 565 | |
| For example: if the PT connect to the meter is 10000/100V | | |
| (Primary voltage is 10000V, secondary voltage is 100V), then the PT rate is 100. | PE | |
| Long Press E to enter the PT2 routine. Press E , the PT2 setting will flash. Use MD^{\bullet}_{PFH2} and P , E to choose PT2 with 174~480. | | |

PT 2

| Set Secondary voltage input the meter | |
|---------------------------------------|--------|
| Range: 100V ~ 480V | 556 |
| Default: 230V | |
| | PF5 |
| | ~ "BES |
| Long Press E for confirmation. | |
| | |

PT 1

| Set Primary voltage input the meter |
|-------------------------------------|
| Range: 174V ~ 500000V |
| Default: 400V |

| Then Press P to ente | r the PT2 routi | ne. Press E, for 2s, the PT2 |
|-------------------------|-----------------|------------------------------|
| setting will flash. Use | PF Hz and P JE | , to select PT2. And long |
| press E for confirmat | ion. Press Ph S | o return the PT set up menu. |

, the PT2 and long up menu.



PULSE

This Option allows you to configure the pulse output. The output can be set to provide a pulse for a defined amou of energy active or reactive.

| This Option sets the pulse output type, pulse rate, duration time. | 566 |
|--|------|
| From the Set-up menu, Use Pread and P to select the Pulse option. | PULS |
| | |

PULSE OUTPUT 1

| Pulse output 1 setting Output type options: total kwh, import kwh, export kwh, total kVarh, import kVarh, Export kVarh. Default: total kWh | SEE PULS OUE kwh |
|--|------------------------|
| Example shows: Pulse Output 1: import kWh Options: total kWh, total kVarh, imp kWh,exp kWh, imp kVarh, exp kVarh. Press for E. 2s,the setting will flash. | SEE PULS OUE kwh |

PULSE RATE

| Pulse rate options: 0.001, 0.01, 0.1, 1, 10, 100, 1000 kWh / kVarh per Pulse Default : 0.001 kWh / kVarh per pulse Use to select Pulse Rate option. Long press E, the setting will flash. Use to choose Options. And long press E, for confirmation. | 1. SEE PULS PREE 0001 | |
|--|--------------------------------|--|
| Example shows: Pulse rate: 0.01 | in SEE PULS PREE 0.01 | |

PULSE DURATION

| Pulse Duration time option 200, 100, 60mS Default : 100mS Use $\stackrel{\text{MD}^{\bullet}}{\stackrel{\text{P}^{\bullet}}{\text{He}}}$ and $\stackrel{\text{P}^{\bullet}}{\stackrel{\text{T}^{\bullet}}}$ to enter Pulse duration routine. Long press $\stackrel{\text{E}^{\bullet}}{\stackrel{\text{T}^{\bullet}}}$, the setting will flash. Use $\stackrel{\text{MD}^{\bullet}}{\stackrel{\text{P}^{\bullet}}{\text{He}}}$ and $\stackrel{\text{P}^{\bullet}}{\stackrel{\text{T}^{\bullet}}}$ to choose Options. And long press $\stackrel{\text{E}^{\bullet}}{\stackrel{\text{T}^{\bullet}}{\stackrel{\text{T}^{\bullet}}}$ for confirmation. Press $\stackrel{\text{P}^{\bullet}}{\stackrel{\text{S}^{\bullet}}{\stackrel{\text{T}^{\bullet}}}$ to return the Pulse Duration set up menu. | n SEE PULS E IRE |
|--|-----------------------------|
| Example shows: Pulse time 200mS | SEE PULS E IRE 200 |
| Example shows: Pulse time 60mS | 588 PULS E IRE 60 |

DEMAND

| This sets the period in minutes over which the current and power readings are integrated for maximum demand measurement. | 566 |
|--|-----|
| The options are: OFF, 5, 8, 10, 15,30, 60 minutes | |
| From the Set-up menu, Use $\Pr^{\text{MD}^{\bullet}}$ and \Pr^{\bullet} to select the Demand option | dRd |
| | |

DEMAND INTERVAL TIME

| The screen will show the currently selected integration time. | | |
|---|---|-----|
| Default is 60 | 5 | EE |
| | | !⊑ |
| | | |
| Long press E, to enter the DIT routine. Press E, for 2s, the | | bli |
| setting will flash. Use $P_{PFHZ}^{MD^{*}}$ and P to choose Options. And long | | |
| press E for confirmation. | | |

DEMAND METHOD

| The screen shows the Demand calculation method: Slid | | |
|--|--------------------|------------------------------|
| Options: Fix and Slid Use The and P to enter Demand calculation method | 5 d 8E 5L | EE 8d 88 1d |
| Long Press \vec{E} to enter the routine. The setting will flash. Use \overrightarrow{PFHz} and \vec{P} to choose Options. And long press \vec{E} , for confirmation. Press \overrightarrow{PhS} to return the Demand set up menu. | 5 d 8E F | EE 8d 88 1 <u>5</u> |
| | | |

TIME

| This option sets the back-light lasting time and display scroll time. | | |
|--|------|--|
| | SEE | |
| From the Set-up menu, Use $\Pr^{\text{MD}^{\bullet}}$ and \Pr^{\bullet} to select the Time option. | FIHE | |
| | | |

BACKLIGHT TIME

| The meter provides a function to set the backlit lasting time. | | |
|--|-------------|--|
| Options: ON/OFF/5/10/30/60/120 minutes. Default: 60 | SEE | |
| Note: if it is set as ON, the backlit will always be on. | 6867 | |
| Long press \overrightarrow{E} to enter the Backlit time routine. Press \overrightarrow{P} for 2s, the setting will flash. Use \overrightarrow{P} and \overrightarrow{P} to choose Options. | L I E 60 | |
| And long press E, for confirmation. | | |

DISPLAY SCROLL TIME

| The meter provides a function to set the Display scroll time. | | |
|--|-------------|--|
| Options: 1~255s. Default: 5 If it is seated as 5, the display will scroll every 5s. | SEE LICD | |
| Use $\frac{MD^{+}}{PF Hz}$ and P to select Display scroll time option. Press E | 5501 | |
| for 2s, the setting will flash. Use $\stackrel{MP^-}{PFHZ}$ and $\stackrel{P}{P}$ to choose Options. And Long press $\stackrel{E}{\vdash}$ for confirmation. Press Ph S to return the | 5 | |
| Time set up menu. | | |

SYSTEM

٢

| The Unit has a default setting of 3 phase 4 wire (3p4w). | | |
|--|---|-----|
| Use this section to set the type of electrical system. | | 554 |
| Options: 3P34,3P3W,1P2W | | |
| | | |
| | | 545 |
| From the Set-up menu, Use P^{MD} and P^{T} to select the | | |
| System option | L | |
| System option | | |

SYSTEM TYPE

| The screen shows the currently selected power supply is | |
|--|---|
| three phase four wire Long press E to enter the System type routine. Press E for 2s, the setting will flash. Use MD^{+}_{FFH} and P to choose Options. And Long press E for confirmation. | SEE 595 Type 3P4 |
| Example shows: The screen shows the currently selected power supply is Three phase three wire | SEL SYS Type <mark>3</mark> P4 |
| Example shows: The screen shows the currently selected power supply is Single phase two wire | SEE SYS TYPE IP2 |

SYSTEM CONNECT

G

| This unit provides a function with Reverse connected current inputs correction setting. | SEE SYS ENEE |
|--|-------------------------------------|
| Options: Frd(forward) and rEv (reverse) The default is FRD (forward) Long press E to enter the Phase 1 correction. Press E for 2s, the setting will flash. Use MD and P to choose Options. And long press E for confirmation. | 595 COCE PH- 1 F rd |
| Press P enter Phase 2 correction. Press E for 2s, the setting will flash. Use P and P to choose Options. And long press E for confirmation. | 595 COCE PH-2 FOV |
| Press P enter Phase 3 correction. Press E for 2s, the setting will flash. Use P and P to choose Options. And long press E for confirmation. Press PhS to return the System set up menu. | 545 COCE PH-3 FO8 |

CHANGE PASSWORD

G

| This unit provides a function with password setting. | SEE |
|---|---|
| Default: 1000 | PASS |
| Options:0000~99999 | UOOJ |
| Use The and P to select the change password option. | 1000 |
| Press E for 2s, the setting will flash. Use MD and P, E to choose Options. And long press E for confirmation. | SEE PASS UOOd <mark>I</mark> OOO |

AUTOMATIC DISPLAY SCROLL

| This unit provides a function with automatic display scroll setting. Options: on and off There are two ways: 1. Use I. The setting will flash. Use I. J. The choose options. | SEE AUTO CISP SCAL |
|---|------------------------------|
| 2. Escape the Setting menu. Long press Ph S for 2 secs. For example, the screen shows the currently selected Automatic Scroll display ON. | AUTO d I SP SOAL ON |

RESET

| This unit provides a function with reset for Energy and Demand, and ALL. | SEF |
|---|------|
| Use P^{MD} and P^{T} to select the Reset option. | rest |
| | |
| Long press E to enter the Energy routine. Press E | SEE |
| for 2s, the setting will flash, then long press E. to Confirm the reset. | rest |
| | ENGY |
| | |
| Then press P enter Demand Reset routine. Press E | 566 |
| for 2s, the setting will flash, then long press $[E]$ to confirm the reset. | rest |
| | в |
| | |
| Then press P^{\star} enter ALL Reset routine. Press E^{\star} for 2s, the setting will flash, then long press E^{\star} to confirm the reset. Press Ph S to return the Reset set up menu. | 586 |
| | rest |
| | RLL |
| | |

SPECIFICATIONS

Measured Parameters

The unit can monitor and display the following parameters of a single phase, 3-phase 3-wire or 3-phase 4-wire supply.

Voltage and Current

Phase to neutral voltage 100 to 276 V a.c (not for 3p3w supplies) Voltage between phases 174 to 480V a.c (3p supplies only) Installation Category III (600V) Rated Current: 1A or 5A Current input range: 5%~120% lb Percentage total voltage harmony distortion (THD%) for each phase to N

Power Factor, Frequency and Max. Demand

Frequency in Hz (45~66Hz) Instantaneous power: Power 0 to 999MW Reactive Power 0 to 999MVAr Volt-amps 0 to 999 MVA Maximum demanded power since last Demand reset Power factor Maximum demand current, since the last Demand reset (three phase supplies only)

Energy Measurements

| Imported active energy | 0 to 9999999.9 kWh |
|--------------------------|----------------------|
| Exported active energy | 0 to 9999999.9 kWh |
| Imported reactive energy | 0 to 9999999.9 kVArh |
| Exported reactive energy | 0 to 9999999.9 kVArh |
| Total active energy | 0 to 9999999.9 kWh |
| Total reactive energy | 0 to 9999999.9 kVArh |

Accuracy

| Voltage VL-N | 0•5% |
|-----------------|---|
| Voltage VL-L | 0•5% |
| Current | 0•5% |
| Frequency | 1% |
| Active power | 0.5% |
| Apparent power | 0.5% |
| Reactive Power | 1% |
| Power factor | 0.01 |
| Active Energy | IEC62053-21 Cl.1 or IEC62053-22 Cl.0.5S |
| Reactive energy | IEC62053-23 Cl.2 |
| THD | |

Environment

| Operating temperature | -25°C to +55°C |
|-----------------------|---------------------------------|
| Storage temperature | -40°C to +70°C |
| Relative humidity | 0 to 95%, non-condensing |
| Altitude | < 2000 Meter |
| Vibration | 10 Hz to 50 Hz , IEC 60068-2-6, |
| Pollution degree | 2g, |

CT and PT

- CT1 (Primart current): 5~9999A
- CT2 (Secondary Current): 1A or 5A
- PT1 (Primart current): 100V~ 500,00V
- PT2 (Secondary Current): 100 TO 480 V AC(I-I)

RS 485 Serial - modbus RTU

This Unit user a RS485 Serial Port with Modbus RTU Protocol to provide a means of remote monitoring and controlling please check the part 4.2 for the detail of setting

Pulse Output

The pulse output can be set to generate pulses to represent kWh or kVArh. Rate can be set to generate 1 pulse per:

| 0.001 | 1Wh/VArh |
|-------|---------------|
| 0.01 | 10 Wh/VArh |
| 0.1 | 100 Wh/VArh |
| 1 | 1 kWh/kVArh |
| 10 | 10 kWh/kVArh |
| 100 | 100 kWh/kVArh |

Pulse width 200/100/60 ms.

the pulse output is passive type complies with IEC62053-31 Class A.

Modbus RTU

Interface standard and protocol: RS485 and MODBUS RTU

Communication address: 1~247 Transmission mode: Half duplex Data type: Floating point Transmission distance: 1000m Maximum

Transmission speed: 2400bps~38400bps

Parity: None (default), Odd, Even

Stop bits: 1 or 2

Response time: <100 mS

For Modbus RTU, the following RS485 communication parameters can be

configured from the Set-up menu:

Baud rate 2400, 4800, 9600, 19200, 38400

Parity none/odd/even

Stop bits 1 or 2

RS485 network address nnn – 3-digit number, 001 to 247

Mechanics

| DIN rail dimensions | 96x 96mm (WxH) |
|---------------------|------------------------------|
| Mounting | Panel mounting |
| Material | Self-extinguishing UL 94 V-0 |

DIMENSIONS



WIRING DIAGRAM









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