


Manual Reset Protection Relay
Press © hold 5 seconds start Time will start again. Start Time is used to delay the detection of Volt, Current during this time, LED Out1, Out2 will flash until the end of the Start Time and check Volt, Current in the case that one of the output functions is Disable Output, the function will not work during the Start Time period. LED Out1, Out2 will not flash.

How to Reset Peak Volt, Current

1. Set parameter $C L-P$ to become -
2. Must be on page display peak results on any one page and press button hold 5 seconds 3. When Reset parameter value $[\mathrm{L}-\mathrm{P}$ to become-----

How to Reset Fault Alarm

1. Set parameter $[L-F$ to become- $-L L$
2. Must be on page display Fault lalarm on any one page and press button + hold 5 seconds
3. When Reset parameter $[L-P$ value to become -----

- CONFIGURATION

KM-20-P9


Press İil 1 time





## - SERIAL COMMUNICATION

Ton KM - 20 are Equipped With a RS - 485 Series Communication Interface to Allow Connection to Computer or PLCS. MODBUS PROTOCOL is Provided as Standard Communication
The User Can Connect KM - 20 as Network Up to 128 Meters Wiring Diagram
modbus protocol


MODBUS PROTOCOL
MODBUS PROTOCOL Has Been Implement In Accordance With MODBUS.ORG MODBUS Application PROTOCOL Specification V.1.1 With The Following Conditions Aplying. The Folowing Conditions Apply Baudrate Can Selected Refer 22. Speed Setting The Format is
MODBUS RTU Refer 22. Speed Setting The Format I 1 MOOBUS STU UART Data Can Selected MOOBUS RTU Refer 22. Speeed Setting The Format Is MODBUS RTU UART Data Can Sel


Modbus Exception code


MODBUS table of KM-20 a s shown in the following table
Modbus Table 1
Modbus Table 1

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0x0 | Volt | Unsignde int | 1 | Read ony |  |
| 1 | $0 \times 1$ | Current | Unsignde int | 1 | Read onl |  |
| 2 | $0 \times 2$ | Curent Exponential | Unsignde int | 1 | Read ony |  |
| 3 | $0 \times 3$ | Hz | Unsignde int | 1 | Read Ony |  |
| 4 | $0 \times 4$ | Peak Volt | Unsignde int | 1 | Read oniy |  |
| 5 | $0 \times 5$ | Peak Current | Unsignde int | 1 | Read Ony |  |
| 6 | $0 \times 6$ | Peak Current Exponential | Unsignde int | 1 | Read Ony |  |
| 7 | $0 \times 7$ | Previous Faut Alarm 1 | Unsignde int | 1 | Read Ony |  |
| 8 | $0 \times 8$ | Previous Faut Alarm 2 | Unsignde int | 1 | Read Ony |  |


|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\frac{\text { dress }}{\mathrm{Hex}}$ | Contents | Format | Word | Access | Comment |
| 256 | 0x100 | CT Ratio | Unsignde int | 1 | RW | 1-2000 |
| 257 | 0x101 | Start Time | Unsignde int | 1 | Rw | ${ }^{1.3600}$ |
| 258 | 0×102 | On Delay 1 Time | Unsignde int | 1 | RW | 1-3600 |
| 259 | 0x103 | Off Dealay 1 Time | Unsignde int | 1 | RW | 3600 |
| 260 | $0 \times 104$ | Function Alam 1 | Unsignde int | 1 | Rw |  |
| 261 | 0x105 | Stand.by Sequence 1 | Unsignde int | 1 | RW |  |
| 262 | 0x106 | On Delay 2 Time | Unsignde int | 1 | RW | ${ }^{1.360}$ |
| 263 | 0x107 | Off Deay 2 Time | Unsignde int | 1 | Rw | 0.3600 |
| 264 | 0x108 | Function Alam 2 | Unsignde int | 1 | Rw |  |
| 265 | $0 \times 109$ | Stand-by Sequence 2 | Unsignde int | 1 | RW |  |
| 266 | 0x10A | Over Limit Alarm 1 | Unsignde int | 1 | Rw |  |
| 267 | 0x108 | Under Limit Alarm 1 | Unsignde int | 1 | Rw | cen |
| 268 | 0x10c | Over Limit Alarm 2 | Unsignde int | 1 | RW |  |
| 269 | 0x100 | Under Limit Alarm 2 | Unsignde int | 1 | RW | coile |

