VD416 registers definition（SF1.11）

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Class | Addr | Name | Unit | | default |
| Work Regs | 0 | Dev ID |  | |  |
| 1 | RS232 Baud | 100bps | | 1152 |
| 2 | RS232 Pars | Bit1:0 | DataBit.0:8bits;other:9bits | |
| Bit3:2 | CheckBit.0:None,1:odd,2:even | |
| Bit5:4 | StopBit.0:1bits,1:1.5bits,2:2bits | |
| 3 | RS485 Baud | 100bps | | 1152 |
| 4 | RS485 Pars | Bit1:0 | DataBit.0:8bits;other:9bits | |
| Bit3:2 | CheckBit.0:None,1:odd,2:even | |
| Bit5:4 | StopBit.0:1bits,1:1.5bits,2:2bits | |
| 5 | Debug\_msg |  | Whether to output debugging information | |
| 6 | Work Mode |  | 0：Timing Start | |
| 1：Never Pow off | |
| 7 |  |  |  | |
|  |  |  |  | |
| 12 | Year | BCD Code | | Year |
| 13 | Month | Month |
| 14 | Day | Day |
| 15 | Hour | Hour |
| 16 | Minute | Minute |
| 17 | Second | Second |
| 20 | Backlight | Second | | 30 |
| 21 | Shutdown | Second | | 60 |
| 22 | Buzzer |  | | 1 |
| 23 | Sensor enabling bit | bit0: Frequency bit1: Temperature(including electronic tags) bit2: voltage bit3: Current bit4: Differential bit5: RS485 sensors | | |
| 24 | Function Enable Bit | bit0:UDisk bit1: Bluetooth | | |
| 30 | Temperature sensor type code | 0 Electronic tags(or 18B20)  1~10: NTC(1~10k) | | |
| 35 | Excitation methods | | | 3 |
| 40 | Diff Speed | 0/1/2/3 | | 10/40/640/1280Hz |
| 41 | Diff PGA | 0/1/2/3 | | 1/2/64/128 |
| 42 | Diff Line Set | 0 | | External in |
| 2 | | Internal temperature |
| 3 | | Line short |
| 57 | RS485 Baud | 100bps | | 96 |
| 58 | RS485 Pars | Same as RS232 Pars’Reg | | |
| 59 | RS485 cmd length | bytes | | 8 |
| 60 | RS485 cmd | Instruction to be sent, up to 16 bytes | | |
| Real Time Datas | 130 | Hardware version |  | |  |
| 131 | Firmware version |  | |  |
| 133 | Transparent transport port |  | |  |
| 134 | Number has been saved |  | |  |
| 135 |  | |  |
| 136 | Sensor number |  | |  |
| 137 | MCU temper | 0.1℃ | |  |
| 138 | Button battery vol | mV | |  |
| 139 | Battery vol | mV | |  |
| 140 | VSEN voltage | mV | |  |
| 141 | Voltage signal value | mV | |  |
| 142 | Current signal value | 0.01mA | |  |
| 143 | Differential signal value | uV | | |
| 144 |
| 148 | Vout2 | mV | |  |
| 149 | Excitation vol | 0.01V | |  |
| 150 | Frequency | 0.1Hz | |  |
| 151 | Coil resistance | Ω | |  |
| 152 | Frequency signal quality | % | |  |
| 153 | Frequency signal amplitude | % | |  |
| 154 | Temperature | 0.1℃ | |  |
| 155 | Electronic tag value |  | |  |
| 157 | 18B20 ID |  | | 157~160 |
| 161 | Data returned by RS485 | up to 16 bytes | | |
| 170 | UDisk Status |  | |  |
| 171 | Bluetooth Status |  | |  |
| Programmable registers | 200 | Programmable register |  | |  |
| … |  | |  |
| 255 |  | |  |
|  | | | | | |