

# DK8A 3位半数字电压、电流表

## DK8A 3 1/2 Digit Voltage、Ampere Meter



### 特点: FEATURES

- ◎转换比率2.5次/秒 Conversion ratio 2.5/s
- ◎零点调整(固定小数) Zero adjustment (Fixed decimal point)
- ◎外型尺寸 96W×48H
- ◎数字范围 ±1999 Display range ±1999

### 一、型号及含义 ORDERING CODE



### 二、型号及说明 CODE ILLUSTRATION

#### ◆交流数字电压表 AC DIGITAL VOLTMETER

| 型号规格 Model | 量程 Range | 分辨率 Resolution | 输入电阻 Input Impedance | 电压互感器变比 PT          | 测量精度 Measuring accuracy | 最大允许输入 input protection |
|------------|----------|----------------|----------------------|---------------------|-------------------------|-------------------------|
| DK8□-AV0.2 | 200mV    | 100uV          | 5MΩ                  | 直接输入 input directly | ±0.5%F.S ±2Digit        | 5V(峰值Peak)              |
| DK8□-AV2   | 2V       | 1mV            | 2MΩ                  | 直接输入 input directly | ±0.5%F.S ±2Digit        | 10V(峰值Peak)             |
| DK8□-AV20  | 20V      | 10mV           | 2MΩ                  | 直接输入 input directly | ±0.5%F.S ±2Digit        | 50V(峰值Peak)             |
| DK8□-AV200 | 200V     | 100mV          | 2MΩ                  | 直接输入 input directly | ±0.5%F.S ±2Digit        | 500V(峰值Peak)            |
| DK8□-AV600 | 600V     | 1mV            | 5MΩ                  | 直接输入 input directly | ±1%F.S ±2Digit          | 1000V(峰值Peak)           |

#### ◆交流数字电流表 AC DIGITAL AMMETER

| 型号规格 Model   | 量程 Range | 分辨率 Resolution | 电流互感器变比 CT          | 测量精度 Measuring accuracy | 最大允许输入 input protection |
|--------------|----------|----------------|---------------------|-------------------------|-------------------------|
| DK8□-AA0.002 | 2mA      | 1uA            | 直接输入 input directly | ±0.5%F.S ±2Digit        | 200mA                   |
| DK8□-AA0.02  | 20mA     | 10uA           | 直接输入 input directly | ±0.5%F.S ±2Digit        | 500mA                   |
| DK8□-AA0.2   | 200mA    | 100uA          | 直接输入 input directly | ±0.5%F.S ±2Digit        | 1A                      |
| DK8□-AA2     | 2A       | 1mA            | 直接输入 input directly | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA5     | 5A       | 10mA           | 直接输入 input directly | ±1.0%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA20    | 20A      | 10mA           | 20A: 5A             | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA30    | 30A      | 100mA          | 30A: 5A             | ±1.0%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA50    | 50A      | 100mA          | 50A: 5A             | ±1.0%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA100   | 100A     | 100mA          | 100A: 5A            | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA150   | 150A     | 100mA          | 150A: 5A            | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA200   | 200A     | 100mA          | 200A: 5A            | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA300   | 300A     | 1A             | 300A: 5A            | ±1.0%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA500   | 500A     | 1A             | 500A: 5A            | ±1.0%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA1000  | 1000A    | 1A             | 1000A: 5A           | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA1500  | 1500A    | 1A             | 1500A: 5A           | ±0.5%F.S ±2Digit        | 1.2 F.S                 |
| DK8□-AA2000  | 2000A    | 1A             | 2000A: 5A           | ±0.5%F.S ±2Digit        | 1.2 F.S                 |

#### ◆直流数字电压表 DC DIGITAL VOLTMETER

| 型号规格 Model | 量程 Range | 分辨率 Resolution | 输入电阻 Input Impedance | 测量精度 Measuring accuracy | 最大允许输入 input protection |
|------------|----------|----------------|----------------------|-------------------------|-------------------------|
| DK8□-DV0.2 | 200mV    | 100uV          | 5MΩ                  | ±0.5%F.S ±2Digit        | 5V(峰值Peak)              |
| DK8□-DV2   | 2V       | 1mV            | 2MΩ                  | ±0.5%F.S ±2Digit        | 10V(峰值Peak)             |
| DK8□-DV20  | 20V      | 10mV           | 2MΩ                  | ±0.5%F.S ±2Digit        | 50V(峰值Peak)             |
| DK8□-DV200 | 200V     | 100mV          | 2MΩ                  | ±0.5%F.S ±2Digit        | 500V(峰值Peak)            |
| DK8□-DV600 | 600V     | 1V             | 5MΩ                  | ±1.0%F.S ±2Digit        | 1000V(峰值Peak)           |

#### ◆直流数字电流表 DC DIGITAL AMMETER

| 型号规格 Model   | 量程 Range | 分辨率 Resolution | 分流器变比 DT            | 测量精度 Measuring accuracy | 最大允许输入 input protection | 内部阻抗 Internal impedance |
|--------------|----------|----------------|---------------------|-------------------------|-------------------------|-------------------------|
| DK8□-DA0.002 | 2mA      | 1uA            | 直接输入 input directly | ±0.5%F.S ±2Digit        | 200mA                   | 100Ω                    |
| DK8□-DA0.02  | 20mA     | 10uA           | 直接输入 input directly | ±0.5%F.S ±2Digit        | 500mA                   | 10Ω                     |
| DK8□-DA0.2   | 200mA    | 100uA          | 直接输入 input directly | ±0.5%F.S ±2Digit        | 1A                      | 1Ω                      |
| DK8□-DA2     | 2A       | 1mA            | 直接输入 input directly | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 0.1Ω                    |
| DK8□-DA20    | 20A      | 10mA           | 20A: 75mV           | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA30    | 30A      | 100mA          | 30A: 75mV           | ±1.0%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA50    | 50A      | 100mA          | 50A: 75mV           | ±1.0%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |

| 型号规格 Model  | 量程 Range | 分辨率 Resolution | 分流器变比 DT    | 测量精度 Measuring accuracy | 最大允许输入 input protection | 内部阻抗 Internal impedance |
|-------------|----------|----------------|-------------|-------------------------|-------------------------|-------------------------|
| DK8□-DA100  | 100A     | 100mA          | 100A: 75mV  | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA150  | 150A     | 100mA          | 150A: 75mV  | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA200  | 200A     | 100mA          | 200A: 75mV  | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA300  | 300A     | 1A             | 300A: 75mV  | ±1.0%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA500  | 500A     | 1A             | 500A: 75mV  | ±1.0%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA1000 | 1000A    | 1A             | 1000A: 75mV | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA1500 | 1500A    | 1A             | 1500A: 75mV | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |
| DK8□-DA2000 | 2000A    | 1A             | 2000A: 75mV | ±0.5%F.S ±2Digit        | 1.2 F.S                 | 5MΩ                     |

说明: (1)测量精度测试环境条件为: 温度20±2℃ 相对湿度45~75%。

Notes: Ambient temperature of 20±2℃, humidity 45% to 75% R.H, the measuring accuracy can be assured.

(2)表中所示配电流互感器、电压互感器、分流器其型号规格为基本型。其它量程如交流一次额定电流为10A、15A、30A、75A、250A、1500A……, 直流一次额定电流为10A、15A、75A、300A、1500A……, 交流一次额定电压为1KV、6KV、11KV、35KV、110KV……均可按用户要求供货。

The list of item CT and PT mode is the basic model. other scales for example, the first AC rated ampere is 10A、15A、30A、75A、250A、1500A……, the first DC rated ampere is 10A、15A、30A、75A、300A、1500A……, the first AC voltage is 1KV、6KV、11KV、35KV、110KV……, all can suit the demand of customer.

(3)配交流电流互感器其二次额定电流为5A, 配交流电压互感器其二次额定电压为100V, 配直流电流分流器其二次额定电压为75mV, 若二次额定电压为其它数值, 用户需予以说明。

With AC CT, the second rated ampere is 5A, AC PT of the second voltage is 100V, DC divider of the second rated voltage is 75mV. Special second rated ampere or voltage, please contact with us.

(4)根据用户要求仪表与电流互感器、电压互感器、分流器可以配套供货。

CT and PT may be equipped according to customers requirements.

(5)本仪表可以通过内部设置的小数点开关和量程开关可同步调整仪表的使用量程, 调整后必须重新校准。

The scale of the meter can be adjusted by the inner decimal point switch and the scale switch of the meter.

### 三、技术参数 SPECIFICATIONS

|                            |   |
|----------------------------|---|
| 最大显示 Max. display          | 1999 (AC 显示有效值 AC Display available scaling function) |
| 输入方式 Input mode            | 单端输入 Single-end Input                                 |
| A/D转换 A/D converter        | 双重积分 Dual slope                                       |
| 溢出显示 Overflow indication   | “1” or “-1”   |
| 极性显示 Polarity display      | 只显示“-” (仅对直流) Only“-”displayed (only DC)              |
| 显示 Display                 | 红色数码管 (14.2mmH) Red LED (14.2mmH)                     |
| 电源 Power supply            | A: AC 220V±10% 50Hz B: AC/DC 100~240V C: AC/DC 24~48V |
| 功耗 Power consumption       | ≤4.5VA  |
| 耐压 Insulation strength     | AC 1500V 1min   |
| 绝缘电阻 Insulation impedance  | DC 500V ≥100MΩ  |
| 重量 Weight                  | 500g  |
| 被测交流信号频率范围 Frequency range | 40~200Hz  |

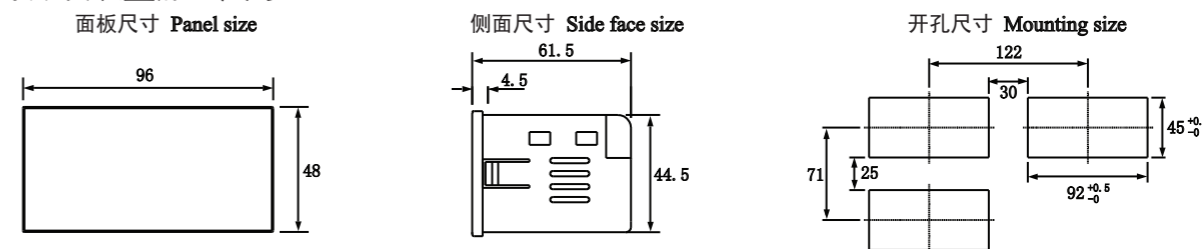
### 四、端子连接 TERMINAL CONNECTION



注: 接线如有变动, 以出厂仪表接线为准。

Note: If there is any change, please subject to the connection drawing on the product.

### 五、外形及表盘加工尺寸 FIGURE AND DIMENSIONS



### 六、使用保存注意事项 CAUTIONS

- (1)使用前, 仪表需通电预热15分钟。The meter must be heated 15 minutes with the power on before use.
- (2)适宜使用环境温度0~40℃, 相对湿度85%以下。Use in ambient temperatures of 0℃ to 40℃, humidity less than 85%R.H.
- (3)本仪表校准时间间隔为一年。The meter alignment interval time is one year.
- (4)注意防止震动和冲击, 不要在有超量灰尘和超量有害化学药品和气体等地方使用。Avoid vibrations or shock, excessive dust, corrosive chemical materials or gas.
- (5)若输入信号伴随高频干扰, 应在线里用高频滤波器。If the input signal is super imposed with high-frequency noise, use a low-passed filter in the input wire.
- (6)输入导线不宜过长。如被测信号输出端与仪表距离不能缩短, 请用双绞屏蔽线, 屏蔽层与信号低端相连。Input wire should not be too long. If measured signal have to be faraway from the meter, please use 2-core shielded cable, and connect its shield lager to the LO side of the signal soure.
- (7)若长期存放未使用时, 请每三个月通电一次, 通电时间一次不少于4小时。If the meter won't be used for a long time, please connect power supply every three months, not less than 4 hours each time.
- (8)长期保存应避免直射光线, 宜存放在-10~70℃, 湿度60%以下的地方。切勿和有机溶剂或油物接触。Long time for storing the meter should be in the shade, with temperature of -10℃ to 70℃, humidity less than 60%. Don't contact with organic solvents or oils.