

Digital Panel Meter

DU Series

User Manual

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DU48 48X96 (4 Digit)



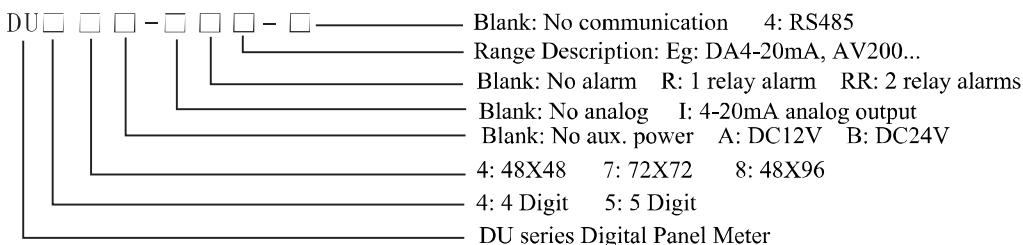
DU44 48X48 (4 Digit)



DU58 48X96 (5 Digit)



Ordering Code

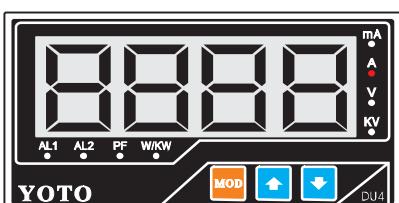


Example: DU58B-IRDA4-20mA-4, means 5 digit display, in 48X96 size, 24VDC aux. power, 1 alarm, measure 4-20mA, with RS485 communication.

Technical Data

| | |
|------------------------|---|
| Power supply | AC 220V ± 10%, 50/60HZ; 90 ~ 260V can be special ordered |
| Energy consumption | <5W |
| Relay contact capacity | 250V AC/3A or 30V AC/5A |
| Input mode | Optical isolated between input and output |
| Insulation resistance | ≥100MΩ |
| Insulation strength | 1.5KV/ 0.5mA one minute |
| Anti-disturbance | Power supply: ±1.6KVp-p Input: ±300Vp-p |
| Shocking proof | 10 ~ 55Hz, 0.75mm |
| Working environment | 0 ~ 50°C, 35 ~ 85%RH (No freezing) |
| Input signal | Current: 0 ~ 20mA, Voltage: 0 ~ 10V (0 ~ 5V, 0 ~ 10V, 0 ~ 50mV) |
| Overload capacity | Reach 120%F.S |
| Display | (-1999) ~ 9999 |
| Accuracy | 0.2%F.S ± 2 Digit |
| Sampling rate | 1 - 4/S adjustable |
| Analogue | 0 ~ 10mA, 4 ~ 20mA, 0 ~ 10V |

Panel Illustration



| | |
|------|----------------------|
| AL1 | AL1 indicator lamp |
| AL2 | AL2 indicator lamp |
| MOD | Set & Confirmn Key |
| ▲ | Increase Key |
| ▼ | Decrease Key |
| MA/A | Current display unit |
| V/KV | Voltage display unit |

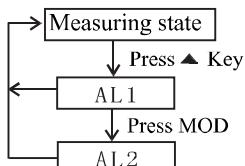
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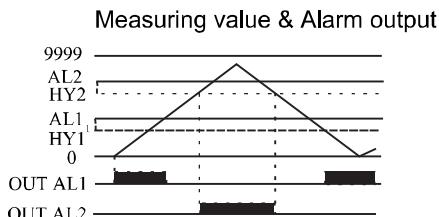
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Operation Process

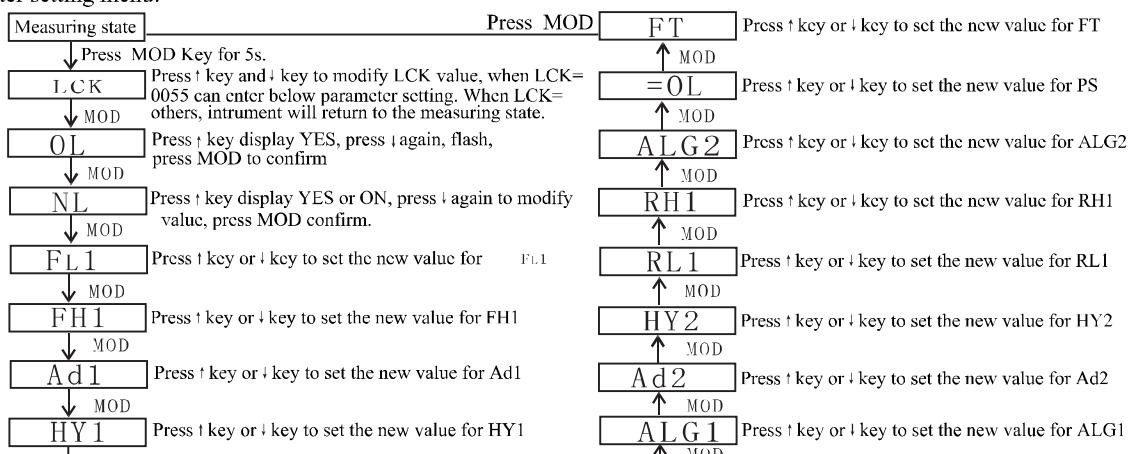


- Settings: 1. Press or key to set a new preset value.
 2. Decimal point: Press MOD and key at the same time to shift the decimal point
 3. AL2 has no function if the instrument only have one alarm.



Note: HY: Hysteresis, which can prevent the relay from moving up and down too frequently.

Parameter setting menu:



| Display | Parameter | Function | Factory setting |
|---------|---------------------------|---|-----------------|
| LOCK | LOCK | When LCK = 0055, can enter the parameter modification menu. When LCK = other value, you can not enter the parameter menu (LCK excluded). | 0055 |
| OL | Zero point calibration | For zero point setting | YES |
| NL | OL function select | NL= NO, OL not work NL= YES, OL work | NO |
| FL1 | Minimum value | Range: 0 ~ 9999 | 0.001 |
| FH1 | Maximum value | Range: 0 ~ 9999 | 0.001 |
| Ad1 | Alarm 1# mode | H: means when the measured value is > or = the AL1 set value, AL1 alarm; L: means when the measured value is < the AL1 set value, AL1 alarm. | H |
| Hy1 | AL1 Hysteresis | Set the appropriate hysteresis value to prevent the relay from moving up and down too frequently. The decimal point is same with measured value. | 0.001 |
| ALG1 | The first low-power Alarm | When ALG1 = 0, The first low-power Alarm work; When ALG1 = 1, The first low-power Alarm not work | 0 |
| Ad2 | Alarm 2# mode | H: means when the measured value is > or = the AL2 set value, AL1 alarm; L: means when the measured value is < the AL2 set value, AL1 alarm. | H |

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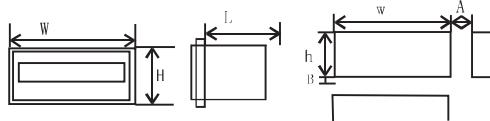
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| | | | |
|-----------------------|------------------------------|---|-------------|
| H_{Y2} | AL2 Hysteresis | Set the appropriate alarm hysteresis to prevent the relay from moving up and down too frequently. The decimal point is same with measured value. | 0.001 |
| RL1 | Lower limit of analog output | If you require the display of the range 0.500 to 1.000 for the 4 ~ 20mA output transmitter, the RL1 is set to 0.5000 | User define |
| RH1 | Upper limit of analog output | If you require the display of the range 0.500 to 1.000 for the 4 ~ 20mA output transmitter, the RH1 is set to 1.000 | User define |
| ALG2 | The 2nd low-power Alarm | When ALG2 = 0, The 2nd low-power Alarm work; When ALG2 = 1, The 2nd low-power Alarm not work | 0 |
| =0L | Zero shielding | Setting range is 0 to 9999, used to correct the zero point when it is not zero in measuring, set this parameter to correct zero. For example, zero at 3, set the parameter to be greater than 3, instrument normal measuring when >3. | 0000 |
| Pt | Filter constant | Range 0 ~ 9, high sampling rate 1 ~ 4 times/ second. | 3 |

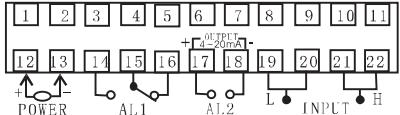
Dimension Size

| Model | Panel size (H x W) | Shell (H x W x L) | Mounting hole (A x B) |
|-------|--------------------|-------------------|-----------------------|
| DU44 | 48 X 48 | 46 X 46 X 80 | 50 x 25 |
| DU48 | 48 X 96 | 45 X 91 X 90 | 50 x 25 |



Terminal Connection

A. Terminal connection



Note: Please refer to the connection on the product if any changes.

B. Cautions

- 1). Working environment: 0 ~ 50 °C, 35 ~ 85% RH (no freezing)
- 2). Avoid heavy shaking and shocking place.
- 3). Instrument should not be used under high interference environment.
- 4). The distance between a sensor and the counter should be as short as possible. If the signal wire has to be extended, please use shielded wire.
- 5). This instrument is non-waterproof, non-dustproof, non anti-corrosion, and non anti-oil.

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