# MYPIN

# DL8 Series Sensor Meter Instruction Manual

Thanks a lot for selecting products! Before operating this instrument, please carefully read this manual and fully understand its contents. If have problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

#### Warning

Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock. fire or malfunction may result.

Do not wire when the power is on. Do not connect the unused terminals. Do not turn on the power supply when cleaning this instrument. Do not disassemble. repair or modify the instrument. This may cause electrical shock. fire or malfunction

Use this instrument in the scope of its specifications. Otherwise fire or malfunction may result.

The use life of the output relay is quite different according to it capacity and conditions. If use out of its scope, fire or malfunction may result.

# A Caution

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result. The operating temperature environment should between 0 (32F) to 50 (122F). To avoid using this instrument in environment full of dust or caustic gas.

To avoid using this instrument in environment of strong shock or concussion.

To avoid using this instrument in environment of overflow water or explosive oil.

Output should start in about 10 seconds after power on when the instrument has control output function.

# Applications

The instrument can measure any range of Current or Voltage signal input. The user can select data remained or top value remained. The instrument can be use with 2 wire transmitter, pressure sensor, 4 wire weight sensor and so on. For non-linear input.

the instrument can process for 20 stages. As well the instrument can be with RS485 communication. The input, output and the power supply is isolated.





- (2) Parameter value/Rate value/ct/AL1
- (3)(4)(5) Indication lamps for Alarm 1/2/3On: Output Off: No alarm

D

6 Select/Confirm key 7 Shift/Clear /Reset key (8) Up key (9) Down key Indication lamps for Voltage, Resistance, Current n: V Off: mV

 $\bigcap On: \Omega \quad Off: ^{\circ}C$ 

(2) On: A Off: mA

#### ★Input Signals selection

Input signal types	Range	Input impedance	Factory setting
A (AA/DA)	0 $\sim$ 5A. 0 $\sim$ 2A	CT configurable	Indicate when order
mA	0 $\sim$ 1mA. 0 $\sim$ 10mA. 4 $\sim$ 20mA $\leqslant$ 150 $\Omega$		$4{\sim}20$ mA
V (AV/DV)	$0\sim$ 5V. $0\sim$ 10V. $0\sim$ 500V $\leqslant$ 200K $\Omega$ DC (		DC 0 $\sim$ 10V
mV	$0\sim 10 \text{mV.} \pm 100 \text{mV} \leq 2 \text{M} \Omega$ 0.		$0{\sim}75 mV$
Rt	0∼400 Ω 0~10K		<b>0∼400</b> Ω
	Cu50 Cu100 -50∼150℃	≪ 0. 2mA	Indicate when order
Pt	–200∼650°C ≤ 0. 2mA		Pt100
TC	K:0∼1320℃		
	J:0~1300℃ E:0~1000℃		
	B:0∼1820℃		
	R:0∼1700°C		
	S:0∼1600°C		

- ★ High Voltage/Current input or data remained function need special order.
- ★ AL3 also can be use as analogue output, but you can select only one of them, but not both. ★ Non-Linear input need special order



### Specifications

Power supply		90-260V AC 50/60Hz or18-30V AC/DC		
Consumption		$\leq$ 5VA		
Accuracy		0.3%F.S $\pm$ 2digit		
Sampling	rate	$\leqslant$ 8 times/second		
Alarm	Relay: NO AC 250V/3A or DC 30V/3A cos =1			
Input	refer the input signal selection			
Analogue	e O-10V or 4-20mA, free set for control output range by software			
Auxiliary Power		DC 12/24V/30mA		
Communication		RS232 or RS485 for option		

#### Dimensions

 $96W \times 48H \times 80L$ 

#### Parameter setting

1.Alarm setting: In the displaying estate, press and hold SET key for more than 3 seconds, enter alarm mode parameters setting menu. Press <</RST kev. LED flashes. press  $\wedge / \vee$  kev to modify, and then press SET key to confirm. Press SET key to read the following parameters one by one. 2.Rate setting: In displaying estate, press<</RST key and LED flashes, then you can modify the value by Up and Down key. The factory setting is 1.00. Once the user want to set it to be other value, then PV=Rate X (USP-LSP) + LSP. USP means Up limit. LSP means Down limit. 3. Zero point clear: In the displaying estate without key operation, when the input zero point, press and hold <</RST key for more than 2 seconds. It is for the

sensor zero point clear.

4. The instrument will return to the measuring estate without any operation for 25 seconds.

#### Special Function

The instrument can be input by up to 2 or 3 signals the up and down LED can display the measuring value. The instrument can calculate the two input value, so it also can be used as a watt meter

#### Operation process











90-260V AC



 $\star$  For ACpower, only average value measurement suitable with sina wave input.

# Malfunction estimate

① No display : Check all the connection and wiring if it is correct. Specially pay attention to the power supply terminals and signal input terminals, please do not wrong connect. As well pay attention to do not short the output terminals by strong current.

② Wrong display : Check it the PVF=0.00 Check if the input signal is conformity with the selected symbol.

For RTD input, please use low impedance cable. The 3 wires should at the same length.

③ Wrong control : When the instrument lost control, please check if the output diagram connection is correct. Or check if the components for output part damaged.

④ UUUU, LLLL : When the instrument displays "UUUU", it means the input signal exceeds the measured Usp range. When the instrument displays "LLLL", it means the input signal lower the measured Lsp range, or input signal terminal connection is contrary.