Datasheet

Digital analyzer monitor

SUP-DC2000

Supmea®

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SUP-DC2000 Digital analyzer monitor is a general-purpose water quality controller. It is suitable for use with Supmea's multiple water quality series digital sensors. It is used to monitor water quality parameters including pH, ORP, conductivity, dissolved oxygen, turbidity, sludge concentration, etc. The parameters are output to the monitoring room through RS485 or current transmission for record keeping.

Applications

Can be used with the following instruments:

- PH sensor
- Conductivity sensor
- Oxygen sensor
- Turbidity sensor

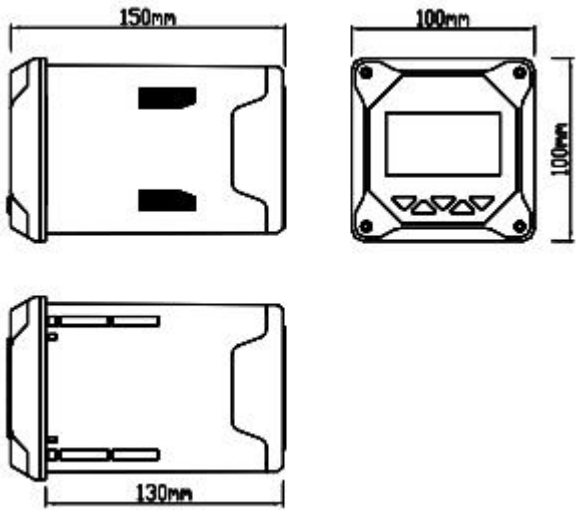
SUP-DC2000

Features

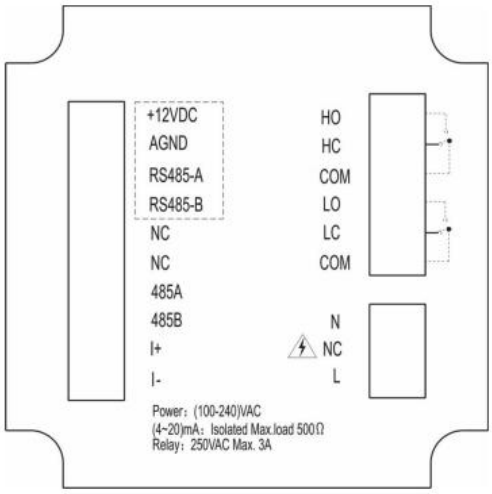
- The isolated transmission output is adopted, which is less affected by interference
- Adopt isolated RS485 communication technology
- With high and low alarm output function.
- With sound and light alarm function.
- With LCD backlight switch control function

Parameters	
Display	2.8-inch monochrome LCD screen, resolution 128*64
Dimension	100mm×100mm×150mm
Hole size	92.5mm×92.5mm
Monitoring parameters	pH/ORP/Conductivity/DO/Turbidity/Sludge concentration
Display range	pH：(0～14)pH
	ORP：(-2000～2000)mV
	DO：(0～40)mg/L
	Saturation：(0～200)%
	Conductivity:(0～600)mS/cm
	Turbidity:(0～4000)NTU
	Sludge concentration:(0～120000)mg/L
Current output	(4～20)mA load capacity 500Ω, output accuracy ±0.2%FS
RS485 output	Isolated, Modbus-RTU communication
Alarm	2 channels, capacity AC250V/3A
Distribution output	12V/125mA
Relative humidity	(10 ~ 85)% (no condensation)
Working temperature	(0 ~ 60)℃
Input	AC：(100～240)VAC DC：24VDC(Optional)
Storage conditions	Temperature:(-15 ~ 65)℃ Humidity(5 ~ 95)% (no condensation) Height:<2000M

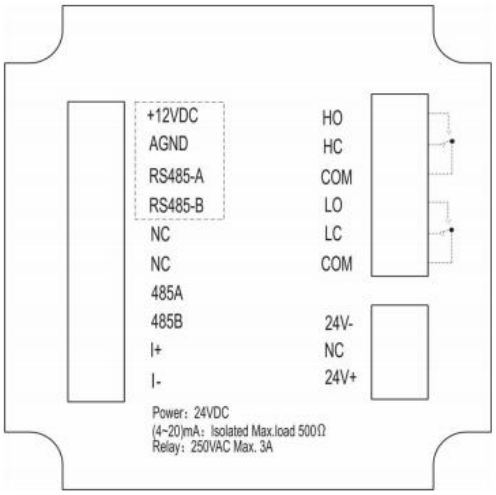
Dimension



Wiring



220VAC wiring diagram



24VDC wiring diagram

- 12VDC:12V power supply +
- AGND: 12V power supply -
- RS485-A: Sensor RS485 communication port A
- RS485-B: Sensor RS485 communication port B
- NC: Unidentified
- RS485 A : RS485 communication interface A +
- RS485 B: RS485 communication interface B-
- I+：4-20mA output end+
- I-：4-20mA output end -

- HO：High alarm normally open relay
- HC：High alarm normally closed relay
- COM：relay common terminal
- LO：Low alarm normally open relay
- LC：Low alarm normally closed relay
- COM：relay common terminal
- L:Power port L
- N:Power port N
- 24V+: 24VDC +
- 24V-: 24VDC -

Ordering code

SUP-DC2000-O1-D1-A2-V1															Description
SUP-DC2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Measure range: pH：(0～14)pH ORP：(-2000～2000)mV DO：(0～40)mg/L Saturation：(0～200)% Conductivity:(0～600)mS/cm Turbidity:(0～4000)NTU (0～120000)mg/L
Transmit output	O1														1 channel 4~20mA
Communication		D1													RS485
Relay output			A2												2 channels
Power supply				V1											220VAC
				V2											24VDC