



Water Quality Analyzer

On-Line Instruments

DO-96M



KI-YEON E&I CO.,LTD.

5F SAMJUNG B/D, 559-2 SINWAL6-DONH, YANGCHON-KU,SEOUL.KOREA
TEL : 82-2-2607-6375 FAX :82-2-2607-6376

Water Quality Monitoring Instruments

Microprocessor based Dissolved Oxygen meter

DO-96M

Microprocessor based DO-96M analyzer and controller, with appropriate sensor assembly, is used to continuously measure dissolved oxygen parameters in wide range of applications such as field as municipal water and waste water treatment, chemical process industry, pulp and paper industries. DO-96M includes all circuitry necessary for measurement and transmission of virtually any process monitoring and control scheme. Compatible with DIN96 sized panel mounting type and compact designed with consideration of user to easy installation. Large LCD display which is easily read under any ambient light conditions. The display continuous read out D.O. and temperature of the process solutions. 40-bar graph output display by percentage. Automatic and manual calibration program benefits simple calibration and low maintenance advantages. DO-96M has High, Low SPDT 5A control relays which maybe individually programmed to operate on rising or falling D.O. values.



Features at a glance

- Micro-processor based large LCD display
- 0/4-20mA current output, galvanically isolated
- Two relay as limit contacts, one relay as alarm or wash contact
- 40-bargraph output percentage display
- Hold function freeze output current
- Automatic/ Manual temperature compensation
- Automatic/ Manual calibration.

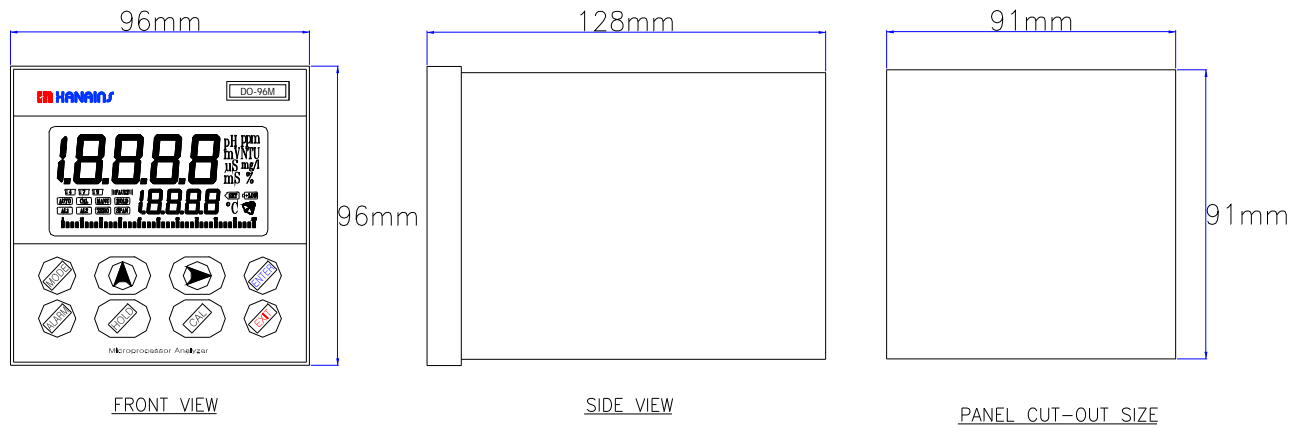
DO-96M Dissolved Oxygen Transmitter/Controller

Measuring range	0.00-10.00, 0.00-15.00, 0.00-20.00 ppm , mg/l
Power supply (main)	AC100V / 220V 50-60Hz
Consumption	± 10% 2VA
Display	10-Digit LCD / 40-bargraph output percent / Message & Image icons
Current output	Isolated 0-20mA, 0-24mA, 4-20mA dip s/w selectable
Accuracy	± 0.1% of F.S.
Repeatability	0.01ppm, mg/l
Relay contact	High / Low AC 250V 5A
Cleaning Time/Period Programmable	10-100sec / 0-10 hour (10 Step)
Temperature coefficient	± 0.002 ppm/ °C F.S.
Temperature compensation	Automatic / Manual without Temp. Sensor 0-100 °C
Ambient temperature	-30 °C to +70 °C
Ambient humidity	0 to 100% R.H
Enclosure	IP 54
Materials	Polycarbonate
Mounting method	Panel
Range adjustment	Programmable automatic
Calibration	Automatic / Manual
Dimensions (W x H x D)	96mm x 96mm x 128mm

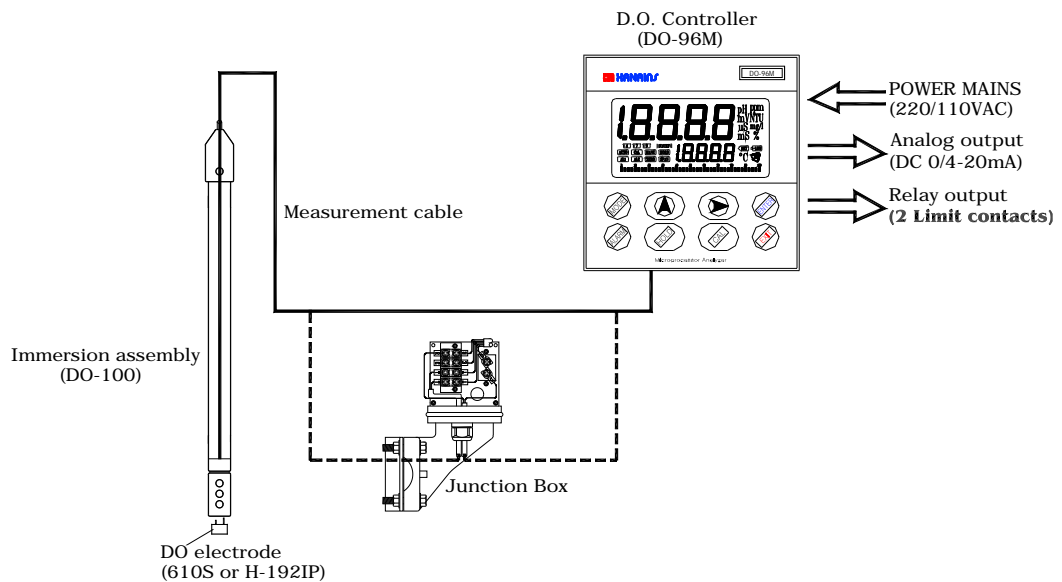
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Dimensions

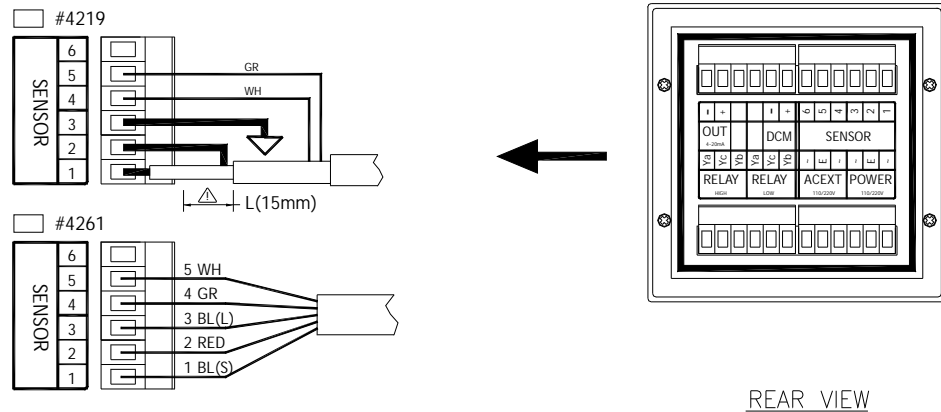


System Example



Electrical Connection

Sensor Connection



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Dissolved Oxygen ordering information

Code Description		
DO-830	Micro-processor field 2" pipe mounting type	Power : AC110/220V 50-60Hz
DO-92	Field 2" pipe mounting type transmitter	Power : AC110 or AC220V or DC24V 2-wire
DO-92Ex	Two-wire isolated 4-20mA output Explosion-proof type with CSA,FM approvals	
DO-96M	DIN96 compatible size microprocessor based meter	Power : AC110/220V 50-60Hz

Measuring Range	
0	0-5 ppm
1	0-10 ppm
2	0-15 ppm
3	0-20 ppm
4	User ordering range

Power Source	
A	AC110V 50-60Hz
B	AC 220V 50-60Hz
C	DC24V 2-Wire (Only DO-92 available)

DO Electrodes	
Part# : 4219	Polarographic type CPVC industrial electrode
Part# : 4261	Disposable galvanic type DO cell

Sensor Mounting Holder Type	
DO-100	Submersion mounting (Galvanic Cell Type)
HS-100	Submersion mounting (Polarographic Electrode Type)
DO-200	Immersion type

Submersion Holder Materials	
A	PVC
B	PP
C	SUS 304
D	SUS 316

Submersion Holder Length			
0	500mm	4	2500mm
1	1000mm	5	3000mm
2	1500mm	6	User ordering length
3	2000mm		

Automatic Cleaning Device	
U-1	Ultrasonic cleaner HUC-600S Power : 110V AC 50-60Hz
U-2	Ultrasonic cleaner HUC-600S Power : 220VAC 50-60Hz
W-1	Water-Jet nozzle assembly (when DO-830/DO-96M controller)
W-2	Water-Jet nozzle assembly with HWJ-600 controller
N	None

DO-830	3	B	4261	DO-100-A-1	U-1
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Typical model number

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* Specifications are subject to change without notice