



# UAC - 100

## UNIVERSAL ANALYTICAL CONTROLLER

### Features

- Single/Dual channel
- LCD Display
- Current Output 4–20mA
- Inbuilt memory for data logging
- Auto temperature compensation
- Programmable relays
- Software Calibration
- Input from pH/ORP/Conductivity/DO Electrode



### Description

**E**lectronet series UAC-100 is dual input analyzer with single or dual sensor input. This analyzer supports wide range of measurement choices in industrial applications. It can accept pH / Conductivity / ORP / DO sensor input in any combination. The high-contrast LCD with back light provides live measurement readouts in large digits and shows upto four additional process variables. Two 4–20 mA current outputs are electrically isolated. Outputs are fully scalable and can be programmed to linear. Output damping can be enabled with time duration from 0 to 50 seconds.

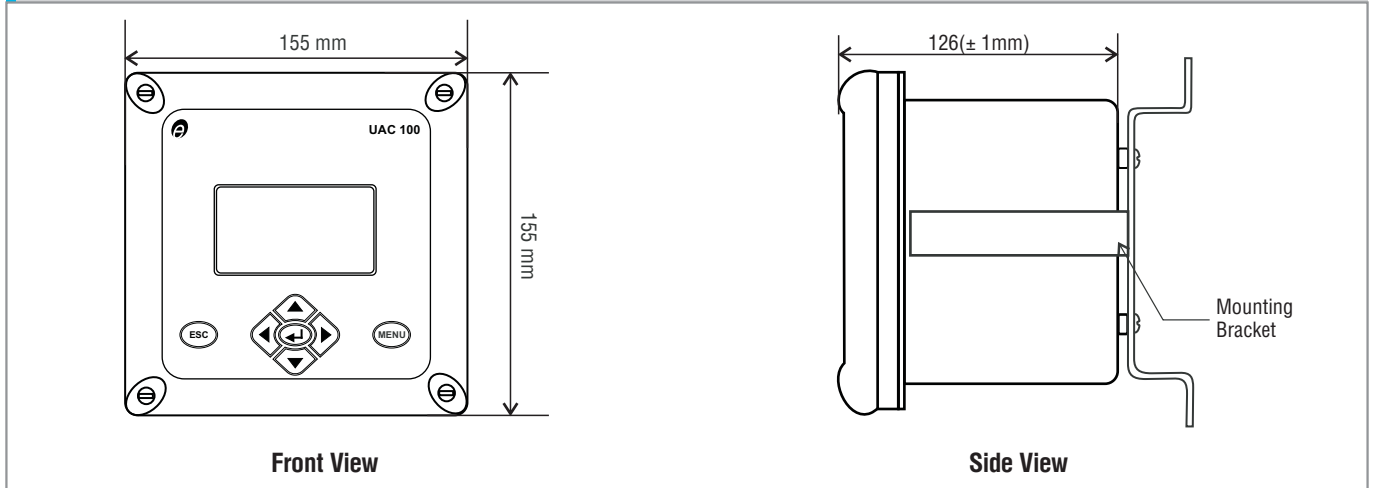
### Technical Specifications

Number of Channel	Single / Dual		
Input Source	From pH / ORP / Conductivity / DO Electrode (Compatible to any make of electrode)		
Display	LCD Display		
Input Range	1) pH: 0 to 14 pH	2) ORP : -2000 to 2000 mV	3) Temperature : 0 to 150 °C
	4) DO : 0 to 20.9 ppm	5) Conductivity : 0.01uS / cm to 10mS/cm	
Accuracy	1) pH : ± 0.02pH	2) ORP : ± 2mV	3) DO : +/-0.25% of FS
	4) Conductivity : ± 0.25% of F. S.		5) Temperature : ± 0.25% of F. S.
Power Supply	1) 24 V DC (+/-10%)	2) 90 to 250 V AC, 50Hz	
Electronic Enclosure	Weatherproof IP 65		
Output	1) 4–20 mA DC, 4–20 mA DC with HART (HART Optional for one channel only)		
	2) 1 Relay Output, 2 Relay Outputs, 3 Relay Outputs, 4 Relay Outputs		
	3) Serial communication RS485, RS232		
Power Consumption	Less than 10 VA		
Temperature compensation	Through RTD (PT-100)		
Temperature Coefficient	0.01% per °C		
Response Time	1) pH, 5 sec to 100% of reading		
	2) ORP, 5 sec to 100% of reading		
	3) Conductivity, 3 sec to 100% of reading		
	4) DO, 6 sec to 100% of reading		
Isolation	1.4 KV between Input, Output & Power Supply		
Bazel Size	155 mm (H) x 155 mm (W) X 126 mm (D)		
MOC Electronics Enclosure	Die Cast Aluminium		
Cutout	144(H) x 144(W)		
Mounting	Panel / Pipe		
Weight	1.5 kg (Approx.)		
Ambient Conditions	Temperature -20 to 55 °C / Humidity 5 to 95% non condensing		
Certification	<b>CE</b>		

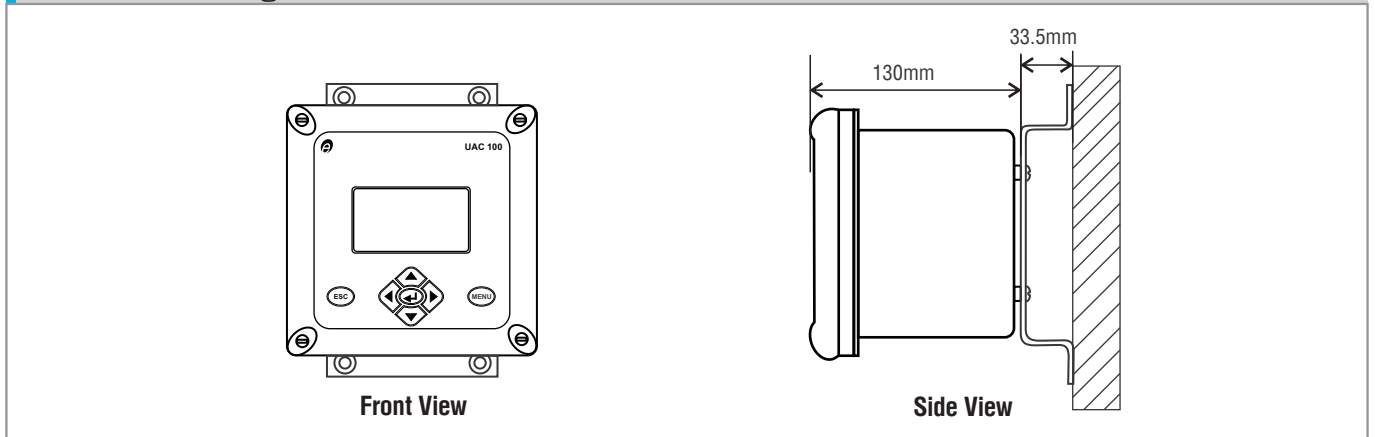
Measurement Table

	pH	ORP	Conductivity	DO
Range	0 to 14 pH	-2000 to +2000mV	0 to 10000 uS	0 to 20.9 ppm
Input Filter	1 to 50 Sec	1 to 50 Sec	1 to 50 Sec	1 to 50 Sec
Response Time	5 Sec	5 Sec	3 Sec	6 Sec
Temperature Comp.	±0.01pH / °C	NA	±2% / °C	Refer Table in Manual
Temperature Accuracy PT-100	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C

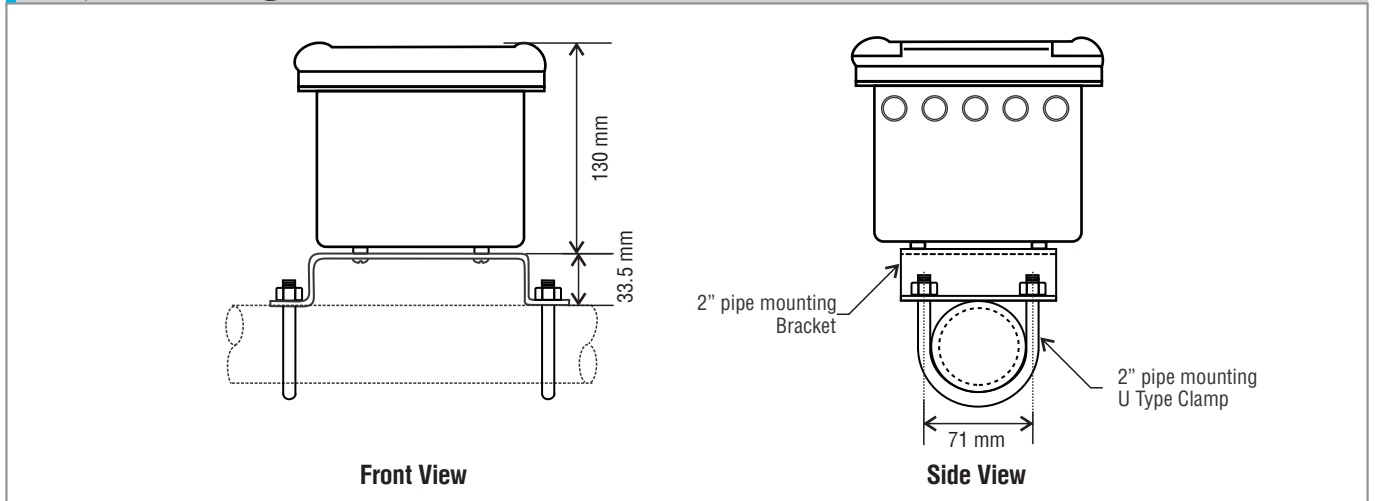
Dimensional & Mounting Panel



Wall Mounting Details



Pipe Mounting Details



Ordering Information

Sample Order Code : B1 C1 E2 H1 I1 K1 L1 M2 N2

Parameter	Code	Description	Parameter	Code	Description
B	B1	pH	H	H1	M 20 X 1.5 (F)
	B2	ORP		H3	Pluggable Connector
	B3	Conductivity (Cell Constant 0.01)	I	I1	RTD PT-100
	B4	Conductivity (Cell Constant 0.1)		IY	Other
	B5	Conductivity (Cell Constant 1)		IX	NA
	B7	Toroidal Conductivity Sensor	K	K1	4 to 20 mA
	B8	DO		K2	4 to 20 mA with HART (Generic)
Note: In case of Toroidal conductivity, other input parameters can not be selected.			KX	NA	
C	C1	pH	L	L1	4 to 20 mA
	C2	ORP		LX	NA
	C3	Conductivity (Cell Constant 0.01)	M	M1	1 Relay Output
	C4	Conductivity (Cell Constant 0.1)		M2	2 Relay Outputs
	C5	Conductivity (Cell Constant 1)		M3	3 Relay Outputs
	C7	Toroidal Conductivity Sensor		M4	4 Relay Outputs
	C8	DO		MX	NA
CX	NA	N	N1	RS485 (MODBUS RTU)	
Note: In case of Toroidal conductivity, other input parameters can not be selected.			N2	RS232	
E	Power Supply	E1	90 TO 250 V AC	NY	Other
		E2	24 V DC (+/-10%)	NX	NA
Note : <ul style="list-style-type: none"> <li>▪ Due to our continuous product revisions, design specification and model numbers are subject to change without notice.</li> <li>▪ Accuracy defined at Lab Conditions.</li> <li>▪ For other requirement please consult factory.</li> <li>▪ Sensor &amp; other accessories to be ordered separately.</li> </ul>					

ELECTRONET EQUIPMENTS PVT. LTD.

Factory Address:

Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,  
 Khandala, Dist.- Satara  
 Pin: 412 801, Maharashtra, India.

Registered Office:

Plot No. 84, 85, 86, Tiny Industrial Estate,  
 Kondhwa Budruk,  
 Pune-411 048, Maharashtra, India.



+91-20-26931476/2039



ho@eeplindia.com



+91-20-26934122



www.eeplindia.com