



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 and 4–20mA



Description

Electronet 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–lit 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.

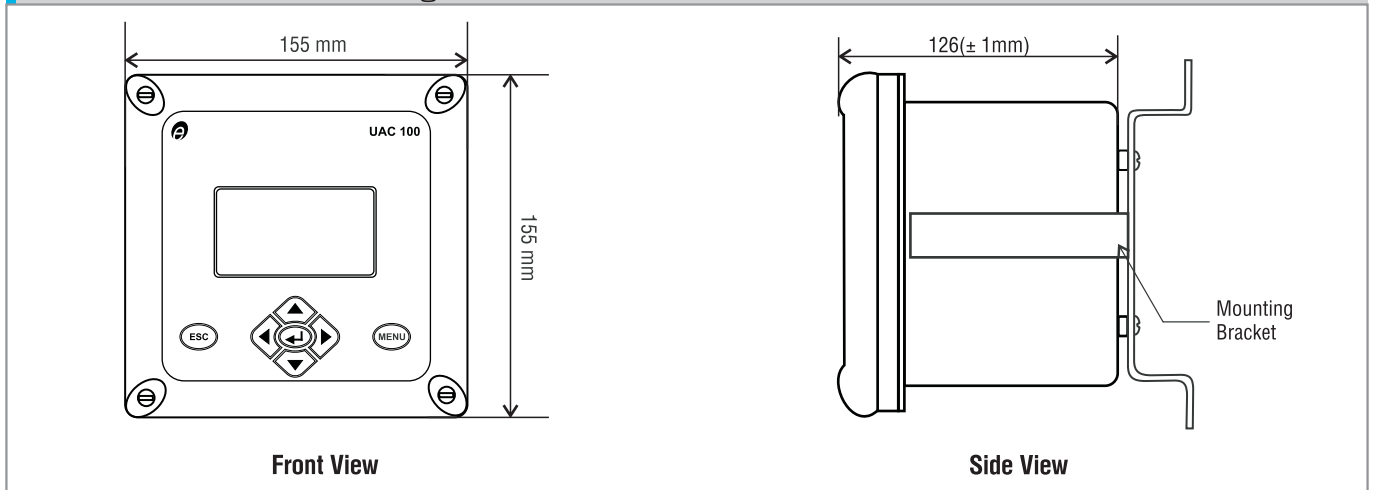
Technical Specifications

Number of Channel	Single/Dual (Any combination)		
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, Programmable	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	2) 85 to 265 V AC,50Hz	
Output	1) 4–20 mA DC, HART (HART Optional for one channel only)		
	2) Potential free Relay Contact (1 c/o, 1 Amp) – 2 nos, programmable		
	3) Serial communication Rs485		
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		
Dimensions	155 mm (H) x 155 mm (W) X 126 mm (D)		
Cutout	139(H) x 139(W)		
Mounting	Panel / Pipe		
Weight	1.5 kg (Approx.)		
Operating Conditions	Temperature –20 to 75 °C / Humidity 5 to 95% non condensing		

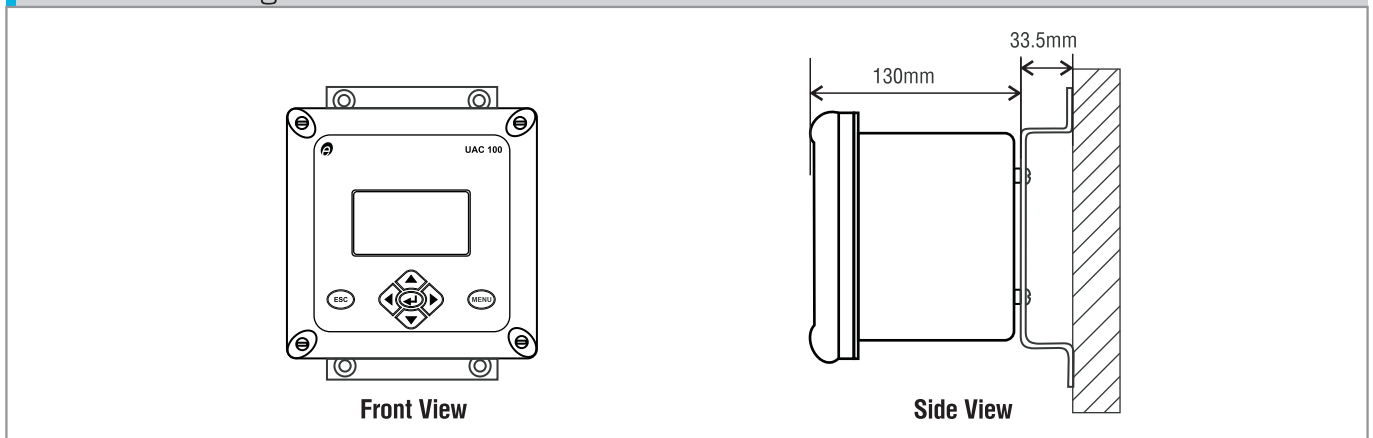
Measurement Table

	pH	ORP	Conductivity	DO
Range	0 to 14 pH	-2000 to +2000mV	0 to 10000 μ S	Programmable
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.	± 0.01 pH / $^{\circ}$ C	± 0.12 mV / $^{\circ}$ C	0 to 150 $^{\circ}$ C	0 to 50 $^{\circ}$ C
Temperature Accuracy PT-100	± 0.5 $^{\circ}$ C	± 0.5 $^{\circ}$ C	± 0.5 $^{\circ}$ C	± 0.5 $^{\circ}$ C

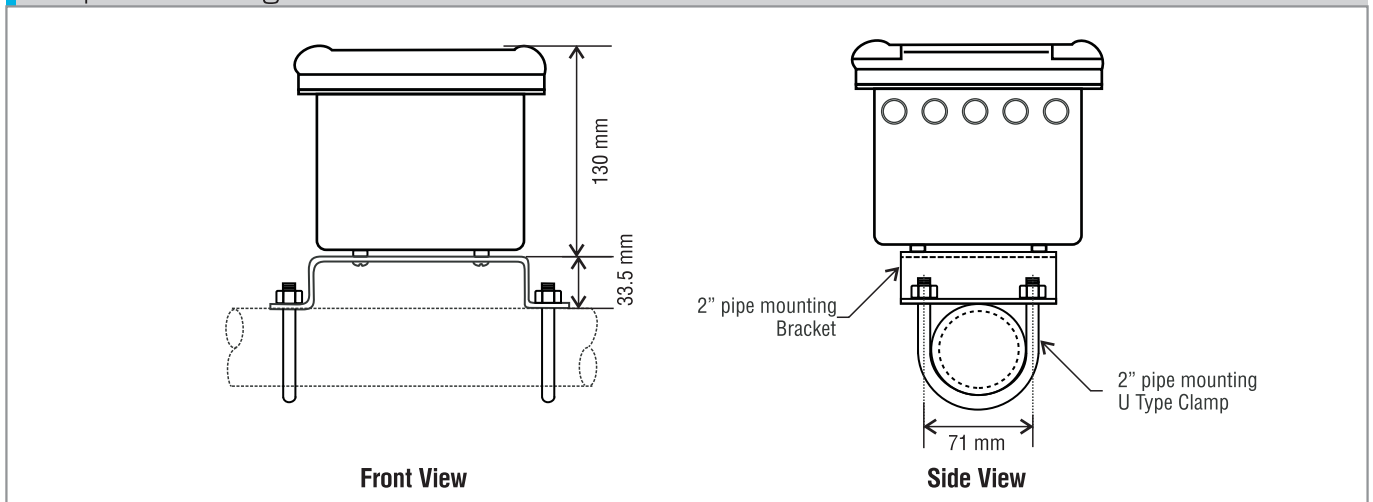
Dimensional & Mounting Panel



Wall Mounting Details



Pipe Mounting Details



Ordering Information

Sample Order Code : 24A-28F-44B-45D-50A-51C-52C-53A

Parameter	Code	Value	Parameter	Code	Value		
24	Power Supply	24A	90 to 250V AC	50	Output 1	50A	4 to 20 mA
		24B	24V DC			50B	4 to 20 mA with HART
			50Y			None	
28	Bazel Size	28F	155 mm x 155 mm	51	Output 2	51C	4 to 20 mA
		28X	Other			51Y	None
44	Input 1	44A	pH	52	Alarm Output	52A	1 Alarm
		44B	ORP			52B	2 Alarm
		44C	Conductivity			52C	3 Alarm
		44D	DO			52D	4 Alarm
			52Y			None	
45	Input 2	45A	pH	53	Communication Output 1	53A	RS 485
		45B	ORP			53B	RS 232
		45C	Conductivity			53Y	None
		45D	DO				
		45Y	None				

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.

Applications

Food Industry	Chemical Industry	Atomic Energy	Manufacturing Industry
Automation Industry	Thermal Power Energy	Process Industry	Water Treatment Industry

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