

UAC 100

UNIVERSAL ANALYTICAL CONTROLLER



Features

- Single/Dual Channel Sensor Input
- Backlit LCD Display
- Current Output 4-20mA
- Inbuilt memory for data logging
- Auto/Manual temperature compensation
- Programmable Alarm/Relays
- Software Calibration
- Input from pH/ORP/Conductivity/DO Electrode



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 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) 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		
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	CE		

UAC 100

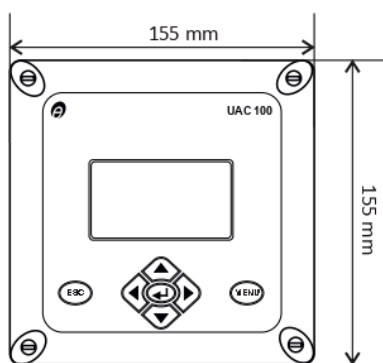
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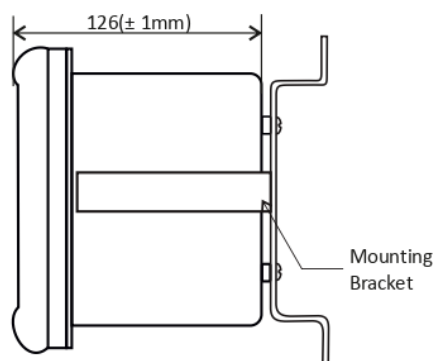
Measurement Table

	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.	$\pm 0.01\text{pH} / ^\circ\text{C}$	NA	$\pm 2\% / ^\circ\text{C}$	Refer Table in Manual
Temperature Accuracy PT-100	$\pm 0.5 ^\circ\text{C}$	$\pm 0.5 ^\circ\text{C}$	$\pm 0.5 ^\circ\text{C}$	$\pm 0.5 ^\circ\text{C}$

Assembly Overview

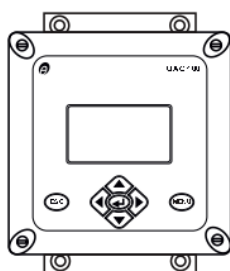


Front View

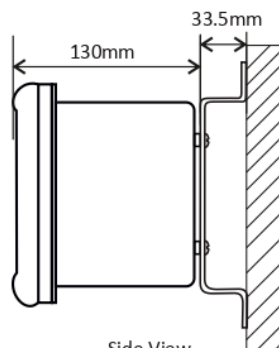


Side View

Wall Mounting Details

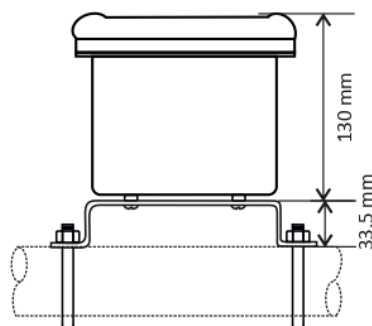


Front View

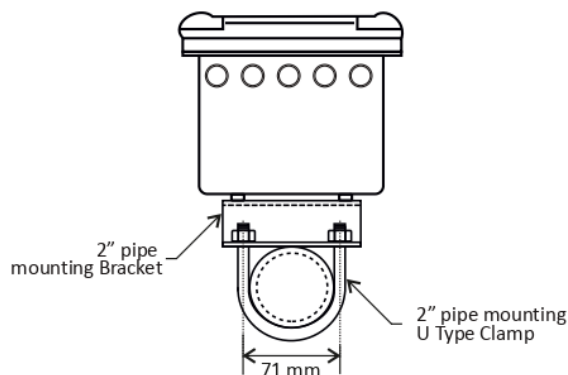


Side View

Pipe Mounting Details



Front View



Side View

Ordering Information

Sample Order Code : UAC 100-A1-B1-C1-D1-E1-F1-G1-H1-I1

Parameter		Code	Description
A	Input 1	A1	pH
		A2	ORP
		A3	Conductivity (Cell Constant 0.01)
		A4	Conductivity (Cell Constant 0.1)
		A5	Conductivity (Cell Constant 1)
		A6	DO
		A7	TDS
B	Input 2	B1	pH
		B2	ORP
		B3	Conductivity (Cell Constant 0.01)
		B4	Conductivity (Cell Constant 0.1)
		B5	Conductivity (Cell Constant 1)
		B6	DO
		B7	TDS
C	MOC Electronics Enclosure	C1	Aluminium Die Cast PU Painted
		C2	SS-316

Parameter		Code	Description
D	Electrical Connection	D1	M20 X 1.5 (F)
		D2	1/2" NPT (F)
		DY	Other
E	Temperature Compensation	E1	RTD PT-100
		EY	Other
		EX	NA
F	Analog Output 1	F1	4 to 20 mA
		F2	4 to 20 mA with HART (Generic)
		FX	NA
G	Analog Output 2	G1	4 to 20 mA
		GX	NA
H	Alarm Output	H1	1 Relay Output
		H2	2 Relay Output
		HX	NA
I	Communication Output 1	I1	RS-485 (MODBUS RTU)
		IX	NA

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.
- Sensor & other accessories to be ordered separately.
- This product is meant for laboratory/Process application only and not for custody transfer application.

ELECTRONET EQUIPMENTS PVT. LTD.

Registered Office:

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



+91-20-26931476
+ 91 99229 31722
+ 91 99224 42183



ho@electronet.co.in
enquiries@electronet.co.in



www.eeplindia.com

Factory Address:

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