

ABS Plastic
Wall Mount

ABS Plastic
Panel Mount



BI 13XX-C

Single Channel Controller



100%
by BHOOMI



Multi
Parameter



Wall,
Panel Mount



2-Wire
Transmitter



Flexible Output
Configuration



Smart
Calibration



Secure
Operation

BI 13XX-C

Single Channel Controller

Agasthya 2021 Series



Flexible Mounting

- ABS panel mount configuration
- Wall mount configuration
- Compact ABS design
- Installation options for site requirements

Smart Operation

- User calibration
- Manual & automatic temperature compensation
- Password protection against mis-operation
- Easy controller configuration
- User-friendly operation

Industrial Protection

- IP66 & IP40 ABS version
- IP66 Ex-proof version upon request
- Dust-proof enclosure
- AC & DC power supply capability

BI 13XX-C

Single Channel Controller

Agasthya 2021 Series

KEY FEATURES

- 2.4" TFT LCD display
- Intelligent menu operation
- Multiple automatic calibration function
- Manual and automatic temperature compensation
- Two relay control switches
- High & low alarm and hysteresis control
- 4-20 mA analog output
- RS485 digital interface, Modbus protocol
- Password protection function to prevent mis

APPLICATIONS

- Water & Wastewater Treatment
- RO Plant & Desalination
- Food & Beverage Processing
- Pharmaceuticals & Biotech
- Chemical Processing
- Power Plants (Boilers & Cooling Towers)
- Pulp & Paper Industry
- Aquaculture & Fisheries

TECHNICAL SPECIFICATIONS

Parameter	pH	ORP	Cl	DO	Turbidity	Conductivity	OIW
Accuracy	±0.20 pH	±2 mV	±1% FS	±1% FS	Low range (0–20/100 NTU): 2% or ±0.02 NTU; High range (0–2000 NTU): 10% or ±0.5 NTU	±3 µS, based on cell constant (Range Selected)	±0.5 ppm
Response Time	< 10 sec	< 10 sec	< 15 sec	< 15 sec	< 10 sec	< 10 sec	< 10 sec
Repeatability	±0.1 pH	±1 mV	±0.5% FS	±1% FS	±1% FS	±1% FS	±0.5 ppm
Resolution	0.01 pH	1 mV	0.001 ppm	0.01 mg/L	0.001 NTU	0.01 µS	0.01 ppm

Display	2.4" TFT LCD
Power Supply	AC - 85–240 VAC; DC - 9–36 VDC
Relay Output	Two Nos, 5A-250 VAC, 5A-30 VDC
Analog Output	Anyone one selectable: 4-20mA, 20-4mA, 0-20mA
Digital Communication	RS485 MODBUS RTU
Dimensions	160x160x90 mm (ABS-Wall Mount) 96x96x96 mm (ABS-Panel Mount)
Mounting Type	Wall (ABS), Panel (ABS)
IP Rating	IP66 (ABS), IP40 (ABS)
Enclosure	Dust Proof, Ex-proof on request

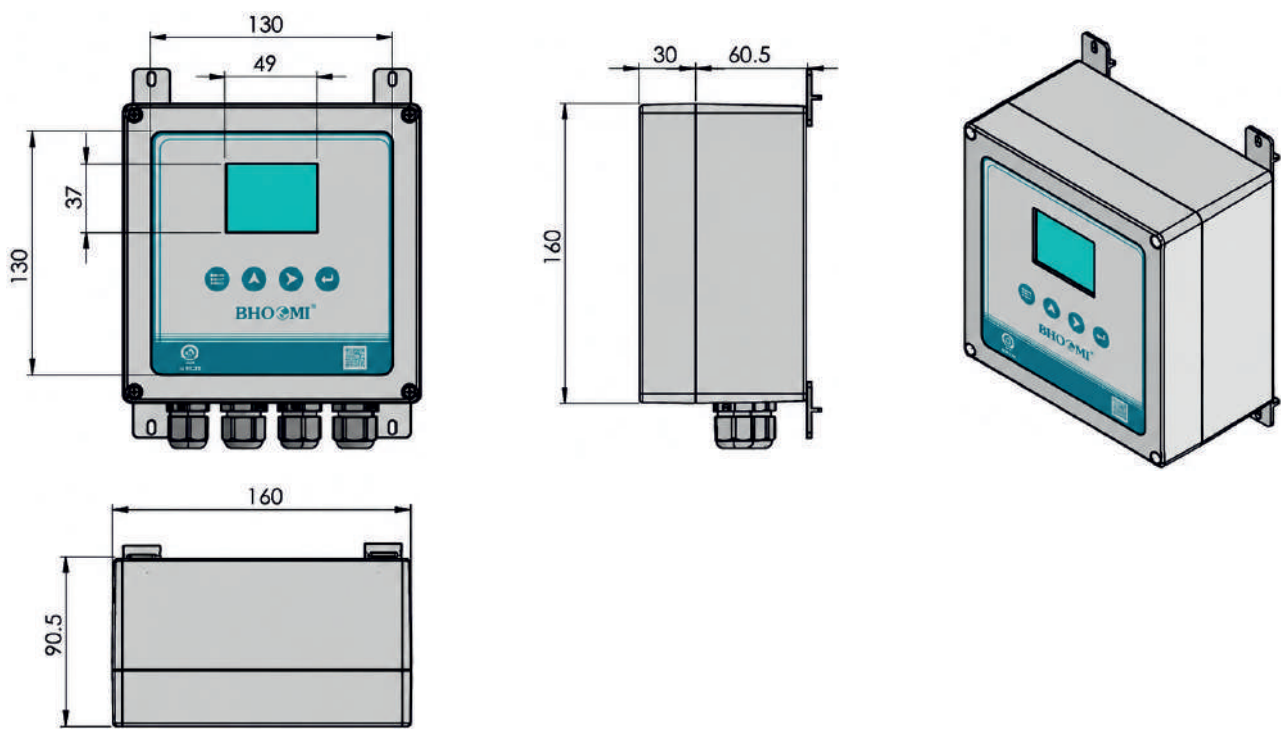
BI 13XX-C

Single Channel Controller

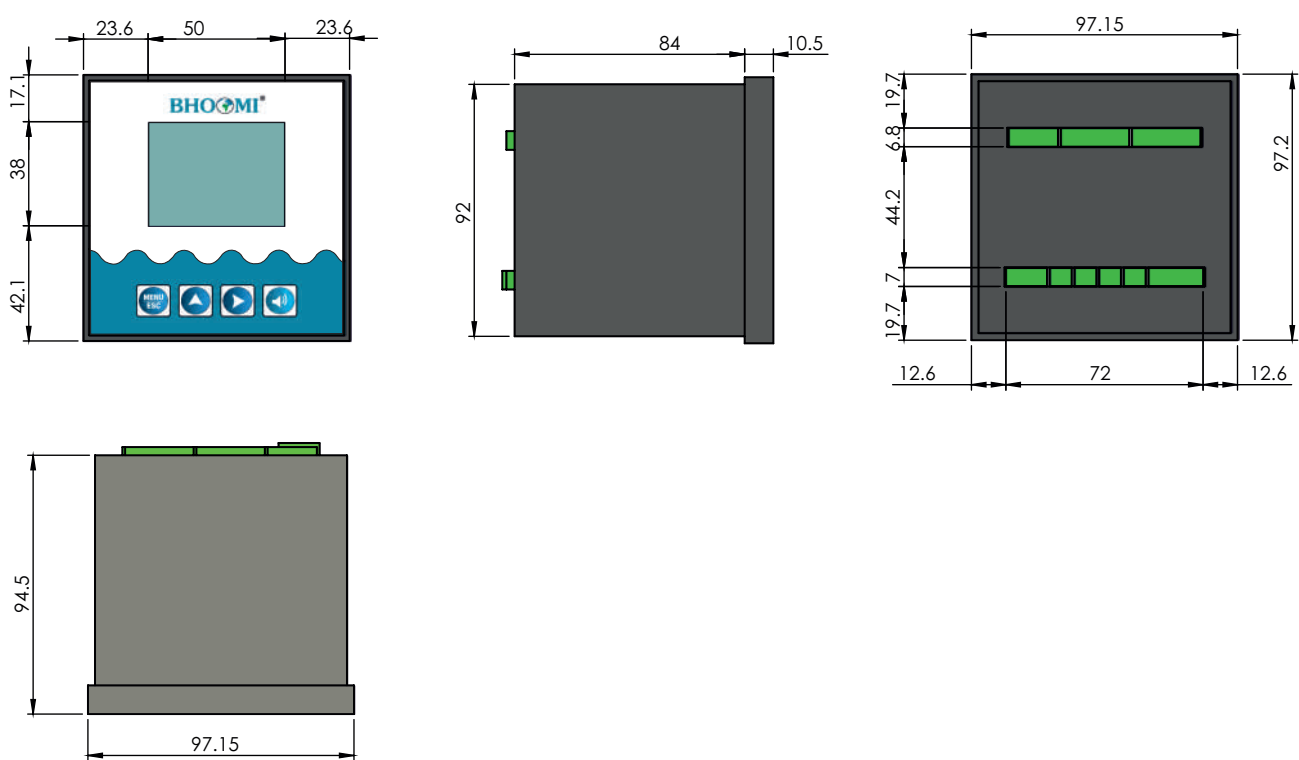
Agasthya 2021 Series

DIMENSIONS & PARTS

ABS Plastic (Wall Mount)



ABS Plastic (Panel Mount)



BI 13XX-C

Single Channel Controller

Agasthya 2021 Series

SAMPLE ORDER CODE FORMAT

BI 13XX	10	AC	1	1	1	AW66
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Code	Description
BI 13XX	Single Channel Controller
10	pH: Parameter
AC	230 VAC
1	4-20 mA Isolated
1	One Relay
1	RS485 Digital Communication
AW66	ABS-Wall Mount-IP66

ORDERING INFORMATION

Model	BI 13XX	Parameter	Power Supply	Analog Output	Relay Output	Digital Communication	Enclosure, Mounting, IP Rating
Product Name	Single Channel Controller	/ X	/ XX	/ X	/ XX	/ X	/ X
Order Code	BI 13XX-10-AC-1-1-1-AW66	10	AC	1	1	1	AW66
Parameter							
00	Additional Parameter	00					
10	pH	10					
20	ORP	20					
30	Conductivity	30					
40	Oil in Water	40					
50	Dissolved Oxygen	50					
60	Turbidity	60					
70	COD	70					
80		80					
Power Supply							
AC	230 VAC (ABS Only)		AC				
DC	24 VDC		DC				
Analog Output							
0	None			0			
1	4-20 mA (Isolated)			1			
2	4-20 mA (Non-Isolated)			2			
Relay Output							
0	None				0		
1	One Relay				1		
2	Two Relay				2		
Digital Communication							
0	None					0	
1	RS485					1	
Enclosure / Mounting / IP Rating							
AW66	ABS-Wall Mount-IP66						AW66
AP40	ABS-Panel Mount-IP40						AP40

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Agasthya 2021 Series

Our NPL & TUV Certified Products

Continuous Emission
Monitoring System

BI 7000



Online Stack Flow
Meter

BI 7300



Online Stack
Dust Monitor - Opacity

BI 7010



Tribo Electric Dust
Monitor

BI 7020



Our Other Gases & Liquid Analyzers

Insitu Zirconia
Oxygen Analyzer

BI 2100, BI 2000



Portable Flue
Gas Analyzers

BI Flexi Pro, BI 1XX, BI 2XX



Process Gas Analyzers

**BI 3XX, 4XX, 6XX
BI 4XXX, BI 8000, BI 7400**



Renewable Energy Gas
Analyzer **BI 7100, BI 7110,
BI 7120, BI 7130**



Ambient Air Quality
Monitoring System

BI 9000



Multiparameter Water Quality
Monitoring System

BI 1000



Water Sensors

BI XXXX



Single & Dual
Channel Controllers

BI 13XX



Panel Mount

Wall Mount