

GAURANGA SOFT-TECH PVT. LTD.

POLARIX



A BIT ABOUT US

We are a uniquely innovative company offering cost-effective & high-quality solutions for Software, Hardware, and complete TurnKey Product Development projects. Driven by technology and ethics, we at Gauranga Technologies are committed to delivering the best value to all our stakeholders and customers.



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gaurangatech.com



Navi Mumbai

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OUR PROFILE

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OUR VISION

- 1 To be the role model for ethical business by establishing a successful company based on spiritual values.
- 2 To provide complete satisfaction to all the stake holders of the company (viz. clients, employees and end-users)
- 3 To be a successful leader in terms adding values & quality services to our customers, employees and end-users.
- 4 To demonstrate the application of spiritual values in business and commerce by establishing and operating profitable organization

OUR BUSINESS VERTICALS

- 1 Product Engineering Division
- 2 Business Process Automation
- 3 Industrial Automation
- 4 Innovation and Learning Services
- 5 Contract Manufacturing
- 6 Verification and Validation

OUR TEAM



**RAMANAN
NAGARAJAN**
CEO, CO-FOUNDER



**NAVANEETHAKRISHNAN
PADMANABAN**
CTO, CO-FOUNDER



**PRASANNA
VENKATESAN**
DIRECTOR

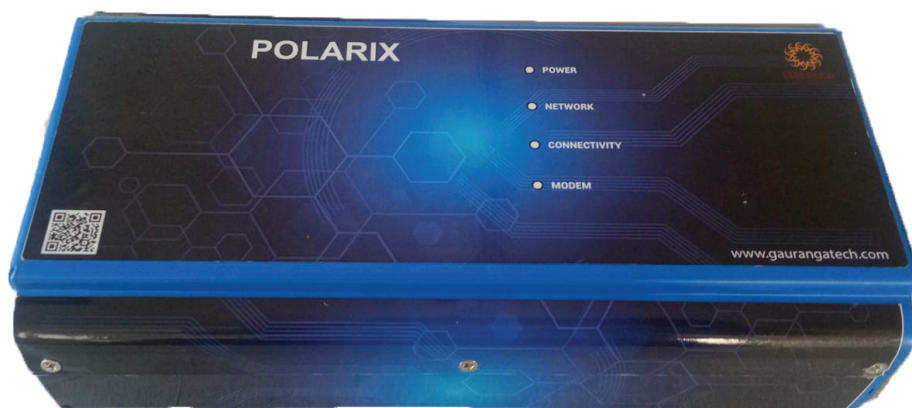


**VALLIAPPAN
SOLAIYAPPAN**
DIRECTOR

OTHER TEAM MEMBERS

Our success is powered by a dedicated team across multiple departments. Embedded and Firmware engineers develop the intelligence of our products, while Hardware and Production ensure reliable manufacturing. The Software team drives seamless connectivity, supported by Purchase and Accounts for smooth operations. HR fosters a positive work culture, and our Management team leads with vision and direction. Together, we work as one to deliver innovation and excellence.

PCU1 (Ultra)



The PCU1 Ultra is the most powerful model in the POLARIX series, designed for large industrial plants and complex monitoring setups. Powered by a high-performance quad-core processor, it supports up to 350 parameters, advanced analytics, local dashboards, and IP camera integration. With dual-band Wi-Fi, Bluetooth, and high-speed 4G LTE connectivity, PCU1 ensures uninterrupted, real-time pollution data reporting even in demanding environments.

BEST SUITED FOR: Large industries, multi-parameter monitoring, advanced compliance systems.

CPCB/SPCB Integration	Yes	Local Basic Reports	Yes
IP Camera	Yes	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	Yes	Remote Firmware Update (OTA)	Yes

Processor	Quad-core Cortex-A76 (ARMv8) 64-bit processor running @ 2.4 GHz
Memory	4GB LPDDR4x-4267 SDRAM
Flash Storage	32GB eMMC Storage
Storage	128 GB secondary storage
Ethernet	Gigabit Ethernet
Wireless	<ul style="list-style-type: none"> * Dual band 2.4 GHz and 5.0 GHz IEEE 802.11 b/g/n/ac Wi-Fi with external antenna (3dBi) * Bluetooth 5.0 and BLE * 4G LTE Cat-3 Modem with download speeds of up to 150 Mbps and upload speeds of up to 50 Mbps, external antenna (7dBi/3-meter cable length)
USB	2 x USB 3.0
Power Input	AC/DC Converter 24V, 2.5A, 60W
RTC	Intergrated RTC with battery
Communication Ports	1 x Isolated RS485
Digital Input/Output	4 x DI, 2 x DO (relay ouput)
Enclosure	IP20 Rated Aluminium Industrial Grade Casing
Operating Temperature	-20°C to +85°C
Cooling	FAN less system
Port expansions	Via USB bus
IO expansions	Via RS485 & LAN bus
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs
Configuration	Via Local web page and remote configurations
Debugging	Supports Remote connectivity via cloud
Parameter Support	Upto 350 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution

PCX1 (Premium)



The PCX1 Premium model balances performance and scalability. It supports up to 50 parameters with reliable data logging, secure cloud connectivity, and remote configuration. Featuring Gigabit Ethernet, dual-band Wi-Fi, Bluetooth, and 4G LTE, PCX1 is ideal for industries requiring robust performance without local visualization features

BEST SUITED FOR: Medium to large facilities with multi-sensor pollution monitoring needs.

CPCB/SPCB Integration	Yes	Local Basic Reports	No
IP Camera	No	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	Yes	Remote Firmware Update (OTA)	Yes

Processor	Quad-core Cortex-A72 (ARMv8) 64-bit processor running @ 1.5 GHz
Memory	2GB LPDDR4-3200 SDRAM
Flash Storage	16GB eMMC Storage
Storage	64 GB secondary storage
Ethernet	Gigabit Ethernet
Wireless	<ul style="list-style-type: none"> * Dual band 2.4 GHz and 5.0 GHz IEEE 802.11 b/g/n/ac Wi-Fi with external antenna (3dBi) * Bluetooth 5.0 and BLE * 4G LTE Cat-3 Modem with download speeds of up to 150 Mbps and upload speeds of up to 50 Mbps, external antenna (7dBi/3-meter cable length)
USB	2 x USB 3.0
Power Input	AC/DC Converter 24V, 2.5A, 60W
RTC	Intergrated RTC with battery
Communication Ports	1 x Isolated RS485
Digital Input/Output	4 x DI, 2 x DO (relay ouput)
Enclosure	IP20 Rated Aluminium Industrial Grade Casing
Operating Temperature	-20°C to +85°C
Cooling	FAN less system
Port expansions	Via USB bus
IO expansions	Via RS485 & LAN bus
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs
Configuration	Via Local web page and remote configurations
Debugging	Supports Remote connectivity via cloud
Parameter Support	Upto 12 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution.

PCM1 (Advanced)



The PCM1 Advanced model is designed for standard pollution monitoring installations. It supports up to 12 parameters, offers stable 4G LTE Cat-1 connectivity, and provides reliable data storage with remote diagnostics and OTA firmware updates. Its fan-less industrial design ensures long-term operation in harsh environments

BEST SUITED FOR: Medium-scale industries and regulatory monitoring applications.

Processor	Quad-core Cortex-A72 (ARMv8) 64-bit processor running @ 1.5 GHz		
Memory	1GB LPDDR4-3200 SDRAM		
Flash Storage	16GB eMMC Storage		
Ethernet	Gigabit Ethernet		
Wireless	* 4G LTE Cat-1 Modem with download speeds of up to 10 Mbps and upload speeds of up to 5 Mbps, external antenna (7dBi/3-meter cable length)		
USB	2 x USB 3.0		
Power Input	AC/DC Converter 24V, 2A, 48W		
RTC	Intergrated RTC with battery		
Communication Ports	1 x Isolated RS485		
Enclosure	IP20 Rated Aluminium Industrial Grade Casing		
Operating Temperature	-20°C to +85°C		
Cooling	FAN less system		
Port expansions	Via USB bus		
IO expansions	Via RS485 & LAN bus		
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs		
Configuration	Via Local web page and remote configurations		
Debugging	Supports Remote connectivity via cloud		
Parameter Support	Upto 12 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution.		
CPCB/SPCB Integration	Yes	Local Basic Reports	No
IP Camera	No	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	No	Remote Firmware Update (OTA)	Yes

PCS1 (Standard Model)



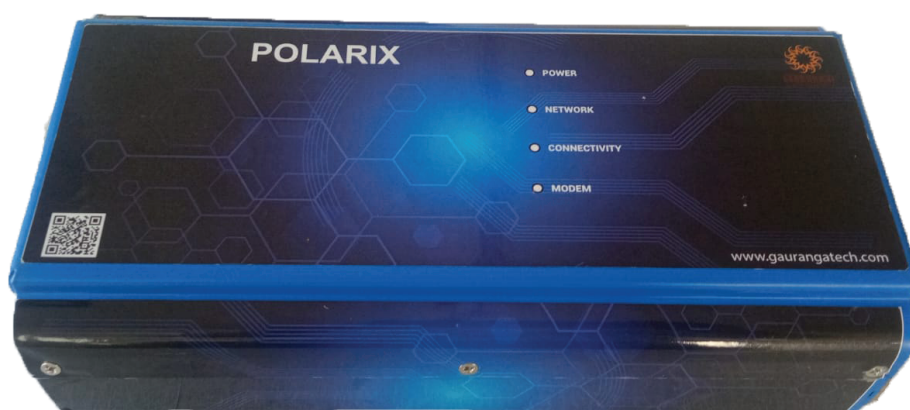
The PCS1 Standard model offers essential pollution data logging with dual Ethernet ports, RS485 and RS232 communication, and secure cloud integration. It is a cost-effective solution for facilities that require basic compliance monitoring with reliable data transmission and remote management capabilities.

BEST SUITED FOR: Small to mid-size industries with standard monitoring requirements.

CPCB/SPCB Integration	Yes	Local Basic Reports	No
IP Camera	No	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	No	Remote Firmware Update (OTA)	Yes

Processor	Quad-core Cortex-A72 (ARMv8) 64-bit processor running @ 1.5 GHz
Memory	1GB LPDDR4-3200 SDRAM
Flash Storage	16GB eMMC Storage
Ethernet	2 x 10/100 Base-T Ethernet (RJ45)
Wireless	* 4G LTE Cat-1 Modem with download speeds of up to 10 Mbps and upload speeds of up to 5 Mbps, external antenna (7dBi/3-meter cable length)
USB	2 x USB 3.0
Power Input	AC/DC Converter 24V, 2A, 48W
RTC	Intergrated RTC with battery
Communication Ports	1 x Isolated RS485, 1 x RS232
Digital Input/Output	2 x DI, 2 x DO (relay ouput)
Analog Input/Output	2 x 4-20 mA Input
Enclosure	IP20 Rated Aluminium Industrial Grade Casing
Operating Temperature	-20 ~ 70°C
Cooling	FAN less system
Port expansions	Via USB bus
IO expansions	Via RS485 & LAN bus
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs
Configuration	Via Local web page and remote configurations
Debugging	Supports Remote connectivity via cloud
Parameter Support	Upto 12 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution

PCBP1 (Basic Plus Model)



The PCBP1 Basic Plus model is a compact and economical IoT data logger designed for entry-level pollution monitoring. With Gigabit Ethernet, isolated RS485 communication, and support for up to 12 parameters, it delivers dependable performance while maintaining compliance with CPCB/SPCB data protocols.

BEST SUITED FOR: Cost-sensitive installations and basic regulatory monitoring.

Processor	Quad core 64-bit ARM-Cortex A72 running @ 1.5GHz		
Memory	1GB LPDDR4 RAM		
Flash Storage	16GB SD Card		
Ethernet	Gigabit Ethernet		
Wireless	* Dual band 2.4 GHz and 5.0 GHz IEEE 802.11 b/g/n/ac Wi-Fi with external antenna (3dBi) * Bluetooth 5.0 and BLE		
USB	2 x USB 3.0		
Power Input	Adapter 9V DC, 1.2A		
RTC	Intergrated RTC with battery		
Communication Ports	1 x Isolated RS485		
Enclosure	IP20 Rated ABS Industrial Grade Casing		
Operating Temperature	0°C to +70°C		
Cooling	FAN less system		
Port expansions	Via USB bus		
IO expansions	Via RS485 & LAN bus		
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs		
Configuration	Via Local web page and remote configurations		
Debugging	Supports Remote connectivity via cloud		
Parameter Support	Upto 12 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution		
CPCB/SPCB Integration	Yes	Local Basic Reports	No
IP Camera	No	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	No	Remote Firmware Update (OTA)	Yes

PCBP1 (Basic Model)



The PCBP1 Basic model is the most affordable option in the POLARIX lineup, offering essential data logging, secure communication, and cloud connectivity. Despite its compact design, it supports remote calibration, OTA updates, and CPCB/SPCB integration, making it a reliable solution for small installations and pilot projects.

BEST SUITED FOR: Small units, pilot deployments, and basic compliance monitoring.

Processor	Quad-core Cortex-A72 (ARMv8) 64-bit processor running @ 1.5 GHz
Memory	1GB LPDDR4-3200 SDRAM
Flash Storage	16GB eMMC Storage
Ethernet	2 x 10/100 Base-T Ethernet (RJ45)
USB	1 x USB 3.0
Power Input	AC/DC Converter 24V, 2A, 48W
RTC	Intergrated RTC with battery
Communication Ports	1 x Isolated RS485
Enclosure	IP20 Rated Aluminium Industrial Grade Casing
Operating Temperature	-20 ~ 70°C
Relative Humidity	95% (non-condensing)
Cooling	FAN less system
Port expansions	Via USB bus
IO expansions	Via RS485 & LAN bus
Protocols Supported	Modbus RTU, Modbus TCP, MQTT, HTTPS, Rest APIs
Configuration	Via Local web page and remote configurations
Debugging	Supports Remote connectivity via cloud
Parameter Support	Upto 12 parameters polling and storage of 3 months data for 1 min, 15 mins and 1 hour resolution.

CPCB/SPCB Integration	Yes	Local Basic Reports	No
IP Camera	No	Remote Calibration	Yes
Local Configuration Webpage	Yes	Remote Quality Command	Yes
Local Dashboard	No	Remote Firmware Update (OTA)	Yes



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A ISO 9001:2015 Certified Company