DRSTA ™
IoTech Pvt. Ltd.

Analysers

ABOUT US

DRSTA
IoTech Pvt. Ltd.

DRSTA IoTech Pvt. Ltd, is a startup initiative committed to enhancing environmental protection through advanced IoT- based water and air analyzers.

'DRSTA' stands for - insight, through this insight we are foreseeing the future environment of our planet and are concerned very much. The initiation of this startup actually the conversion of our concern into action. Our innovative solutions integrate seamlessly with SCADA (Supervisory Control and Data Acquisition) systems to deliver real-time data, monitoring the system for effective environmental management. We strive to empower industries, municipalities, and communities with precise, reliable data to ensure cleaner air and water for future generations.
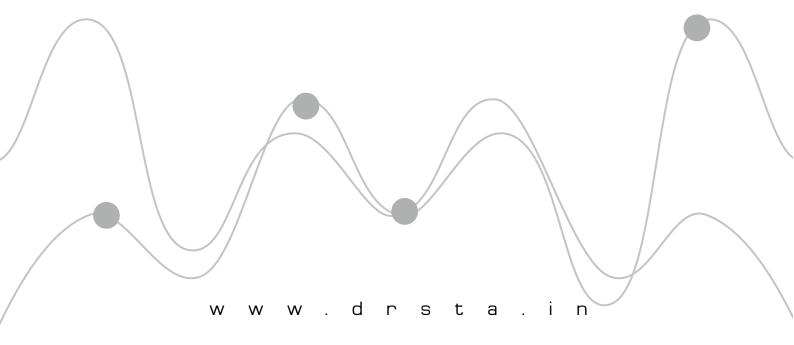
Vision

Work as environment warrior to create a more sustainable and smarter planet through innovative IoT solutions that seamlessly integrated into everyday environments to enhance the efficient and proper use of resources and to improve the safety & quality of life. Also, by implementing this environmental monitoring technology, intelligent data solutions and cutting-edge analytics we will leave a sustainable world for our future generations.
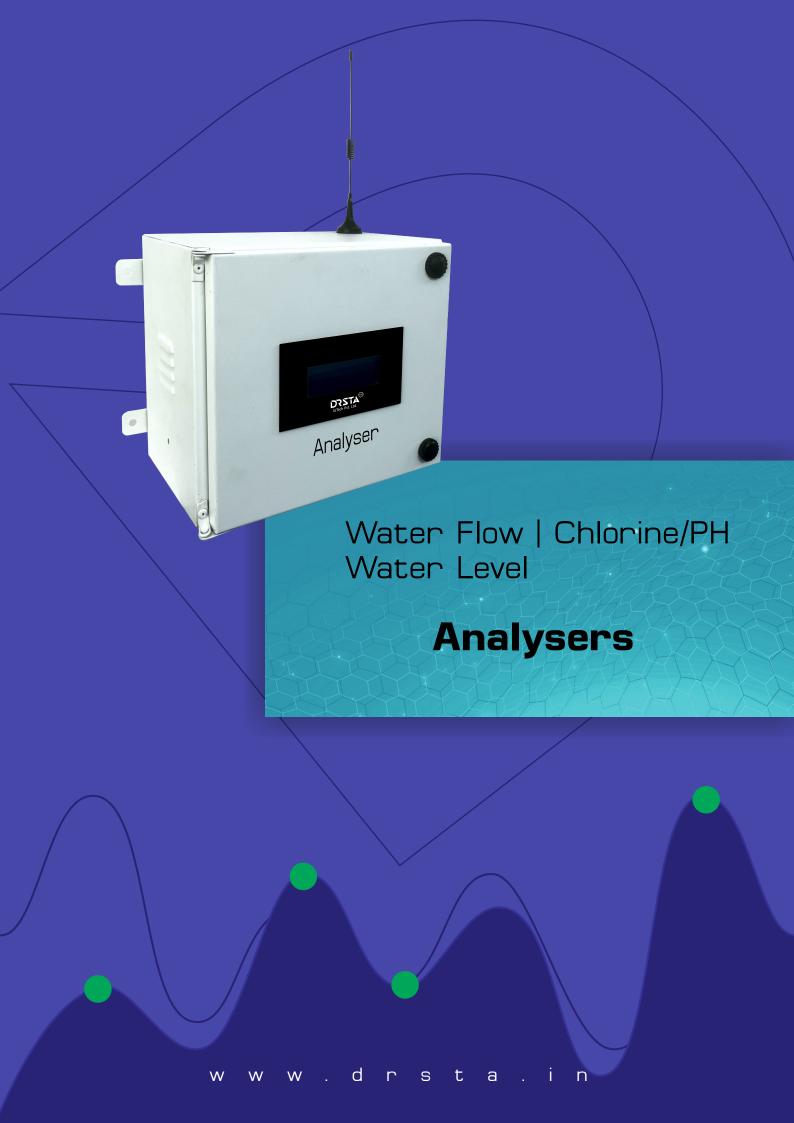
Mission

Our mission is to harness the power of Internet of Things (IoT) technology to develop cutting-edge automation solutions that improve environmental conditions, reduce resource consumption, and provide actionable insights for a healthier and more sustainable planet. We strive to deliver intuitive, reliable, and scalable products that empower individuals and organizations to make informed decisions and achieve their environmental goals.

Our Values

- Innovation: Continuously advancing our technology to stay ahead of environmental challenges.
- Integrity: Ensuring accuracy and reliability in all our data and operations.
- Sustainability: Committed to practices and solutions that promote environmental stewardship.
- Collaboration: Partnering with stakeholders to drive impactful change.
- Customer-Centricity: Delivering tailored solutions that meet the unique needs of our clients.·

Water Flow | Chlorine/PH
Water Level

Analysers

PRODUCTS

Water Level Analyser

Water Level Sensor

Water Level Analyser

Hardware Specifications:

- Hydrostatic Level Sensor-Based Water Level Analyser
- 304 or 316L stainless steel shell
- High Precision, Isolation circuit board
- Microamplifier, output of voltage, current
- Sensor Range 10,20,50,100,200 Meters
- Accuracy: 0.1% F.S 0.25% F.S (standard)
- Power Supply: 12-24 VDC/230 VAC
- Inherent frequency : 5kHz ~650kHz
- Inbuilt Display Unit 20 X 4
- Dual Relay Control
- 32 GB inbuilt Storage
- RS-485 and 4-20 mA input
- 4-20 mA Output
- Built-in GSM Modem and GPRS Communication
- GSM 4G/3G/2G 6/7 dBi Dual Band LTE Flexible Magnetic Mount GSM Antenna
- CE & RoHS mark on the Product

Firmware Specifications:

- Measure Static Water Level and Pumping Water Level.
- Overflow Protection with Pump Control (Alert/Alarm/Notification)
- Encrypted Data Transfer (256-bit Encryption)
- During internet connectivity failure or a communication issue with the central server, the data collection and transmission module stores the encrypted data locally and re-transmit it when the connectivity is restored.
- The data collection and transmission module waits for acknowledgment from the server and re-transmit the data if no acknowledgment is received within the time-out period.
- The data collection and transmission module supports remote analyser configuration. The module accepts the remote analyser configuration command and updates the analyser configuration with the set value.
- Supports SMS configuration command.
- The data capture interval of the analyser is minimum 2 minutes or other mean average period selected by the user.
- Supports auto restart on failure or machine reboot.
- Supports online calibration.
- Supports both-way communication.

PRODUCTS

Water Flow Analyser

Full-bore electromagnetic flow sensor, flange Connected, Suitable for volume flow measurement of liquids (conductive), for applications in water treatment, water distribution Networks.

Flow Meter

Flow Analyser

Specification as below:

- Electromagnetic Flow Meter
- Type of Flow Meter: Electro Magnetic Type
- Type of Field excitation: Pulse D
- Power Supply: 24 V DC/230 V AC
- Communication: RS485,4-20 mA
- Calibration lab Accredited to the international standard ISO/IEC 17025. environments); IEC/EN 61326-2-5
- Flow meters have SENSORPROM. SENSORPROM
- 32 GB Internal Storage
- 4-20 mA Output
- Built-in GSM Modem and GPRS Communication
- GSM 4G/3G/2G 6/7 dBi Dual Band LTE Flexible Magnetic Mount GSM Antenna
- CE & RoHS mark on the Product

Firmware Specifications

- Measure Water Flow , Water Pressure, Water Volume .
- Generate real time Exceedance notifications (Alert/Alarm).
- Encrypted Data Transfer (256-bit Encryption)
- During internet connectivity failure or a communication issue with the central server, the data collection and transmission module stores the encrypted data locally and re-transmit it when the connectivity is restored.
- The data collection and transmission module waits for acknowledgment from the server and re-transmit the data if no acknowledgment is received within the time-out period.
- The data collection and transmission module supports remote analyser configuration. The module accepts the remote analyser configuration command and updates the analyser configuration with the set value.
- Supports SMS configuration command.
- he data capture interval of the analyser is minimum 2 minutes or other mean average period selected by the user.
- Supports auto restart on failure or machine reboot.
- Supports both-way communication.
- Supports Auto Calibration.

Chlorine/PH Analyser

Chlorine/PH Sensor

Chlorine/PH Analyser

Specification as below:

- ORP range : 0 – 1000 mV
- Body material : Glass
- Maximum operating pressure: 5kg/cm2
- Mounting Thread: ¾" BSPM
- Power Supply: 230 V AC/24 V DC
- Wide operating voltage range
- Relay output – potential free for alarm
- Double ball NRVs ensure long life
- Communication: 4-20 mA and RS485 (Optional)
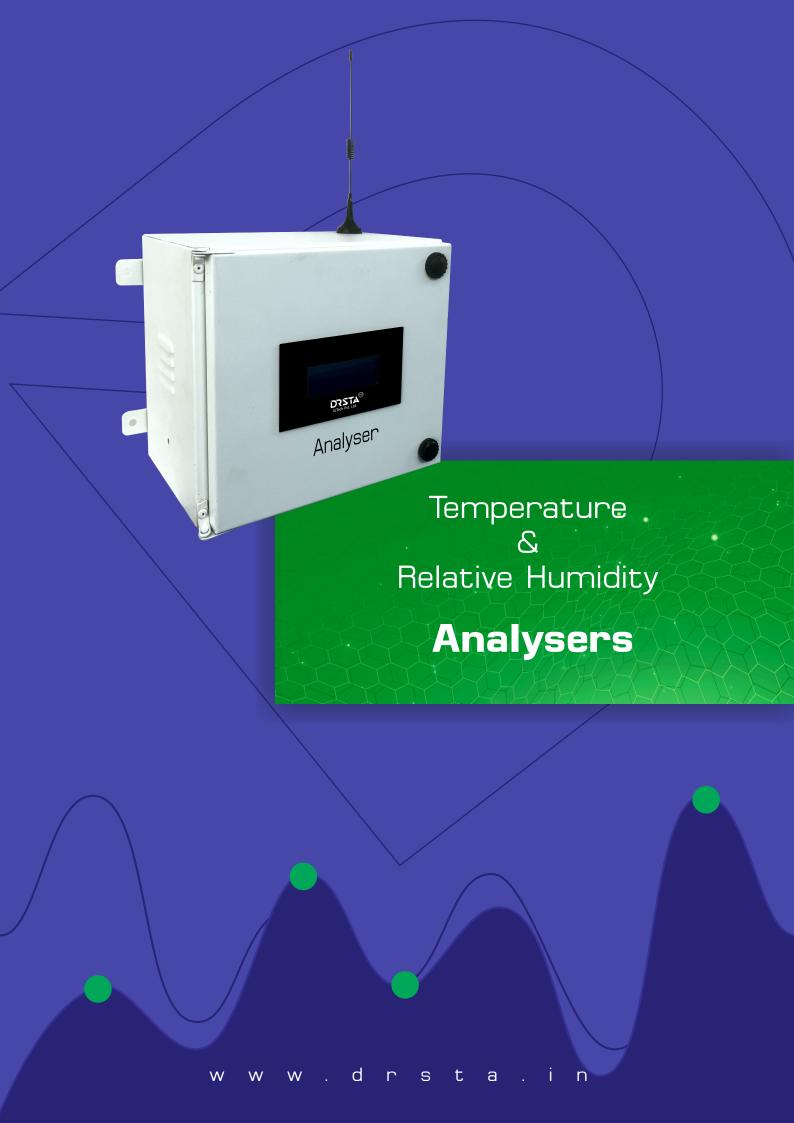- 32 GB Internal Storage
- 4-20 mA Output
- Built-in GSM Modem and GPRS Communication
- GSM 4G/3G/2G 6/7 dBi Dual Band LTE Flexible Magnetic Mount GSM Antenna
- CE & RoHS mark on the Product

Firmware Specifications

- Measure Chlorine and PH Level.
- Generate real time Exceedance notifications (Alert/Alarm).
- Encrypted Data Transfer (256-bit Encryption)
- During internet connectivity failure or a communication issue with the central server, the data collection and transmission module stores the encrypted data locally and re-transmit it when the connectivity is restored.
- The data collection and transmission module waits for acknowledgment from the server and re-transmit the data if no acknowledgment is received within the time-out period.
- The data collection and transmission module supports remote analyser configuration. The module accepts the remote analyser configuration command and updates the analyser configuration with the set value.
- Supports SMS configuration command.
- The data capture interval of the analyser is minimum 2 minutes or other mean average period selected by the user.
- Supports auto restart on failure or machine reboot.
- Supports both-way communication.
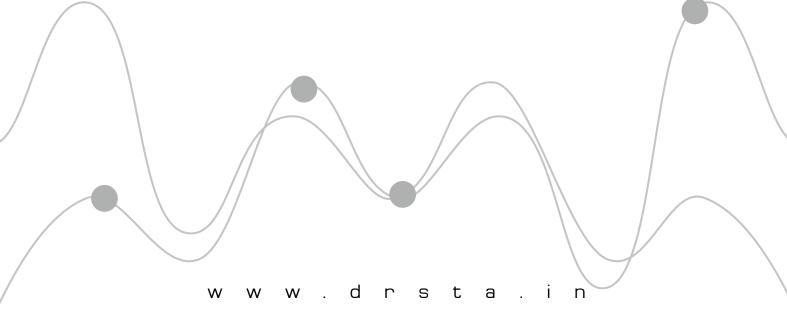- Supports Manual Calibration.

Temperature
&
Relative Humidity

Analysers

PRODUCTS

Indoor Temperature & Relative Humidity

Analyser

Specifications

IoT Based Analyser for monitoring Temperature & Relative Humidity - **Indoor (Wall Mounted Temperature and Humidity Sensors)**

- Temperature measurement range : -50°C ~ 100°C
- Accuracy ± 0.5°C, Resolution : 0.1°C
- Humidity measurement range - 0 ~ 100% RH
- Resolution : 0.1 % RH
- Power Supply - DC 12V - 24V
- Output: RS485 or 4-20mA
- Built-in GSM modem and GPRS communication,
- GSM 4G/3G/2G 6/7dBi Dual Brand LTE Flexible Magnetic Mount GSM Antenna
- Encrypted data transfer (256 - bit encryption)
- During internet failure / communication issue with the central server the data collection and transmission module store all the encrypted data locally and transmit it when the connectivity restored
- In - built 32 GB memory card for data collection
- Support both ways communication

PRODUCTS

Outdoor Temperature & Relative Humidity

Analyser

Specifications

IoT Based Analyser for monitoring Temperature & Relative Humidity - **Outdoor (Wall Mounted Temperature and Humidity Sensors) Networks.**

- Temperature measurement range : -40°C ~ 80°C
- Accuracy ± 0.5°C, Resolution : 0.1°C
- Humidity measurement range - 0 ~ 100% RH
- Resolution : 0.1 % RH
- Power Supply - DC 12V - 24V
- Output: RS485 or 4-20mA
- Built-in GSM modem and GPRS communication,
- GSM 4G/3G/2G 6/7dBi Dual Brand LTE Flexible Magnetic Mount GSM Antenna
- Encrypted data transfer (256 - bit encryption)
- During internet failure / communication issue with the central server the data collection and transmission module store all the encrypted data locally and transmit it when the connectivity restored
- In - built 32 GB memory card for data collection
- Support both ways communication

Products
&
Company

Certifications

CERTIFICATIONS

Company Certifications

Product Certifications

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DRSTA™

IoTech Pvt. Ltd.

Analyser