



TECHNICAL PRODUCTS

Welcome to Turanya Offshore Consultancy LLP, we are an exporter of high-quality technical goods and services. With years of experience and a proven track record in the industry, we are dedicated to delivering cutting-edge solutions tailored to meet the unique needs of our clients worldwide.

Our commitment to excellence drives us to offer a comprehensive range of technical products and services, including **RFID Solutions** (Readers, Tags and Configurators). **Thermal Printing Solution:** (Thermal Printers, Thermal Papers) **Sensors** (Temperature, Pressure, Humidity, Level) **Solar Products** ...etc

Each of our offerings is picked from sources that are backed by meticulous quality control, innovative design, and efficient service delivery, ensuring optimal performance and customer satisfaction.

We understand that our global partners require reliable, cost-effective solutions and seamless service. To that end, our team of experts collaborates closely with clients to ensure smooth transactions, timely deliveries, and post-export support.

At Turanya, we take pride in building long-term relationships based on trust and excellence. We are proud to expand our reach across borders, contributing to the growth of industries worldwide through the export of superior technical goods and services.

RFID Solutions

Radio Frequency Identification (RFID) technology has become increasingly important in modern logistics and supply chain management. This technology uses electromagnetic fields to transfer data between a reader and a tag attached to an object, enabling automatic identification and tracking of products. In the export sector, the adoption of RFID solutions offers significant benefits, ranging from improved efficiency to enhanced security and accuracy in tracking goods across international borders.

Key Benefits of RFID Solutions in Export

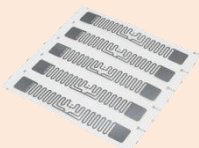
1. **Enhanced Tracking and Visibility:** RFID provides real-time data on the movement and location of goods throughout the export process. By embedding RFID tags in products or containers, businesses can obtain a continuous stream of information, leading to better supply chain visibility and improved inventory management.
2. **Improved Efficiency:** The automation of data capture via RFID reduces the need for manual scanning and entry, thus minimizing human error and speeding up processes such as packing, shipping, and receiving. This can lead to reduced labor costs and faster processing times at ports, warehouses, and transport hubs.
3. **Accurate Documentation and Compliance:** The output of the RFID solution can be Integrated with ERP after due processing of data.
4. **Enhanced Security:** The use of RFID provides an added layer of security by making it easier to monitor the movement of goods and detect any unauthorized tampering or theft. RFID tags can be integrated with sensors that alert operators if containers are opened or moved without authorization, helping prevent loss or damage to high-value items.

Our RFID Solutions

1. RFID Tags:

Small, electronic devices that store data about the item to which they are attached. They can be passive (requiring an external reader to transmit power) or active (with their own power source for longer-range communication).

- **Passive RFID Tags:** Low cost, limited range, battery-free.
- **Active RFID Tags:** Higher range, battery-powered, more expensive.
- **Semi-Passive RFID Tags:** Battery-powered for internal circuitry, longer range than passive.
- **LF, HF, and UHF Tags:** Differ based on operating frequency and range.
- **Specialty Tags:** Designed for specific environmental conditions.
- **Chipless RFID Tags:** Cost-effective, secure, unique encoding.



RFID for Inventory



RFID Nails



RFID Card



RFID for cloths

2. RFID Readers

RFID Readers: Devices that send and receive radio signals to communicate with RFID tags. These can be fixed (installed in warehouse entry/exit points, shipping containers, etc.) or mobile (handheld scanners used by operators).



Fixed/Stationary Readers:



Handheld Readers:



Mobile Readers:



Embedded/Integrated Readers

3. **Antennas:** Used to transmit and receive signals between the RFID reader and the tag. They can be installed at strategic points such as loading docks, storage areas, and transport vehicles.
4. **Software:** RFID solutions include specialized software for data processing, tracking, and reporting. This software is responsible for integrating the data collected from RFID readers with the existing supply chain and enterprise resource planning (ERP) systems.

THERMAL PRINTING

Thermal printing is a popular method of printing used in various industries for producing labels, receipts, and other documents. It offers a reliable, efficient, and cost-effective solution for applications where high-volume and high-speed printing is needed. The process involves using heat to transfer ink or activate a heat-sensitive medium, such as thermal paper, to create an image.

Benefits of Thermal Printing Solutions

1. **Speed and Efficiency:** Thermal printers are known for their fast printing capabilities, making them ideal for high-volume applications.
2. **Low Maintenance:** Since direct thermal printers don't require inks or toners, they have fewer moving parts and are easier to maintain.
3. **Cost-Effective:** Lower operating costs in direct thermal printing due to the absence of ink and ribbons.
4. **High-Quality Prints:** Thermal transfer printing offers high-resolution, durable images that are suitable for long-term use.

Disadvantages:

1. **Print Durability:** The printed material may fade over time when exposed to heat, sunlight, or moisture.
2. **Limited Media Options:** Works only with heat-sensitive paper.

Thermal printing solutions are widely used across different industries due to their efficiency and versatility:

- **Retail and Point of Sale (POS):** Printing receipts, labels, tags, and barcode labels.
- **Logistics and Shipping:** Printing shipping labels, tracking barcodes, and packing slips.
- **Healthcare:** Printing patient wristbands, prescription labels, and laboratory specimen tags.
- **Hospitality:** Generating tickets, boarding passes, and restaurant receipts.
- **Manufacturing:** Printing product labels, barcodes, and inventory tags.

Thermal Printer

These printers use heat to transfer an image or text onto a surface, such as paper or labels. Known for their speed, reliability, and low operational cost, thermal printers are widely used in various industries, including retail, logistics, healthcare, and hospitality. They are particularly suited for high-volume printing tasks due to their efficiency and minimal maintenance requirements.



Thermal Paper



Thermal paper is a type of paper that is used for printing without the need for ink, toner, or ribbon. It is coated with a special heat-sensitive coating that changes color when exposed to heat, allowing images or text to be printed directly onto the surface. This technology is commonly used in various printing applications, such as receipts, tickets, labels, and POS (point-of-sale) printing.

SENSORS

A sensor is a device or instrument that detects and responds to changes in an environment or specific physical conditions. It converts a physical stimulus—such as light, heat, motion, pressure, or sound—into an electrical signal or data that can be measured or recorded. Sensors are integral to many modern technologies and systems, providing real-time feedback and facilitating automation, monitoring, and control in various applications.

Pressure Sensors: Measure the pressure of liquids or gases.

Proximity Sensors: Identify the presence or absence of an object without physical contact.

Temperature Sensors: Detect temperature changes.

Sound Sensors: Capture sound waves and convert them into electrical signals.

Humidity sensor: Measures the amount of water in the air, or humidity, and converts it into an electrical signal

Light Sensors: Measure light levels, such as in photoresistors or photodiodes.

Chemical sensor is a device that converts chemical information into an analytical signal.

Motion Sensors: Detect movement and can be used for security, automatic lighting, etc.

Gas sensor: A gas sensor is a device that detects the presence or concentration of gases in the air.

SOLAR SOLUTION

A solar solution refers to the use of solar energy to meet energy needs, reduce dependency on non-renewable resources, and contribute to a sustainable future. Solar energy is harnessed through photovoltaic (PV) cells or solar thermal systems that convert sunlight into electricity or heat. The primary benefit of adopting solar solutions is their ability to generate clean, renewable energy, which helps in lowering greenhouse gas emissions and mitigating climate change.

Turanya has affiliations with string of high performing Solar Manufacturers. By collaborating with us, you will gain access to:

A reliable source of high-performance solar products.

Technical support for product installation and maintenance.

Flexible terms for bulk orders and long-term partnerships.

We believe that we can contribute significantly to promoting renewable energy and sustainable development in your region.

Key Components of Solar Solutions

1. **Solar Panels (Photovoltaic Cells):** These are the most recognizable part of a solar system, typically mounted on rooftops or open spaces to capture sunlight and convert it into electrical energy.
2. **Inverters:** They convert the direct current (DC) electricity produced by solar panels into alternating current (AC) electricity, which is the standard form used in homes and businesses.



3. **Batteries:** In some systems, batteries store excess energy produced during the day to be used at night or during periods of low sunlight.
4. **Charge Controllers:** These regulate the amount of power going into the batteries, preventing overcharging and damage.
5. **Mounting Structures:** These are designed to support and angle solar panels at an optimal orientation for maximum sunlight exposure.

CONTACT US:

TURANYA OFFSHORE CONSULTANCY LLP
A 1301, Sun Atmosphere
Club O7 Road, Opp Club O7
Shela,
Ahmedabad: 380058
Gujarat, India

Ph: + 91 7629802223

e-mail: Info@turanyatech.com

www.turanyatech.com