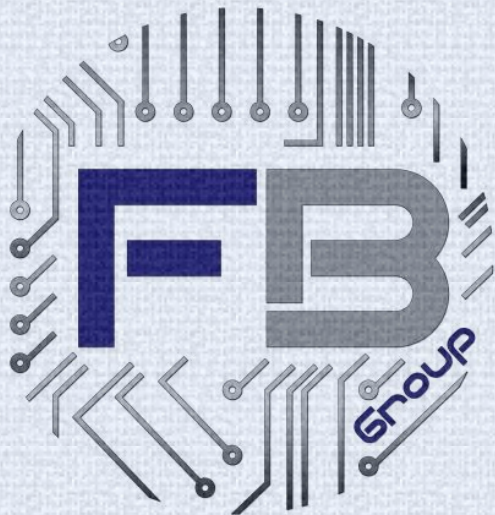


# Firas Balasmeh Corporation For Control Systems

## Corporation Profile

January 2023

**Hydrometric and Environmental Business Line**



# INTRODUCTION

## ABOUT US...

Firas Balasmeh Corporation for Control Systems "FB GROUP", is a Jordanian individual corporation operating in Jordan since 2010.

FB GROUP is run by a professional team of well experienced and multi-disciplinary engineers. We work as a system integrator that provides services for business organizations and people to find quality vendors of reliable and high quality hardware, software, service, training & support.

Services provided are: Turnkey solutions, design, engineering, supplying, installation, commissioning, testing, training, and operation and maintenance.

# INTRODUCTION

## OUR VISION...

1

Provide the Kingdom of Jordan & the Middle East region based Supply, Engineering and Services to the Industrial & Commercial Sectors.

2

Develop the Kingdom of Jordan & the Middle East region based cores of Technology for improving the productivity and environmental compliance of Jordan & the ME region industries.

3

Enhance the viability of the Kingdom & the ME region installed systems, reduce life cycle costs and increase return on investment by enhanced support and technology transfer.

# INTRODUCTION

## OUR MISSION...

Continually exceed our customer's expectations as well as continually improve our capabilities in doing so.



## OUR OBJECTIVE...

Our main OBJECTIVE is increasing the engineering support, services and training business.



# INTRODUCTION

## WHAT WE VALUE...

### **Integrity, Honesty and Fairness...**

- We are a company that keeps its promises.

### **Customer Satisfaction...**

- We exceed customer expectations through continuous improvement in quality, service, productivity and time compression.

### **Our Employees...**

- We provide our people with the tools, training and support to achieve excellence in customer satisfaction.

### **Improvement & Innovation...**

- Which we seek in every element of our business.

### **Social Responsibility...**

- We actively recognize the central role we occupy in the structure of society to improve the quality of life and the environment of a broad community.

# INTRODUCTION

## WHAT WE DO...

**Pre-Engineering**

**Design**

**Manufacturing**

**Integration**

**Upgrading**

**Installation**

**Support & Maintenance**

**Training**

**Auditing**

# INTRODUCTION

## WHAT WE DO...

### Pre-Engineering



- Building of existing drawings.
- Preparation of preliminary drawings.
- Bid packages.
- Assistance in evaluation of bids and bid verification.
- Reports on compliance.

### Design



- Detailed Specification of a Proposed Solution.
- Detailed Design Preparation.
- Procurement Services.
- Design Verification.

### Manufacturing



- Manufacturing of panels as per design documents.
- Wiring of Terminations, Isolation and I/O Cards.
- Preparation of systems, mounting of equipment.
- Testing.

# INTRODUCTION

## WHAT WE DO...

### Integration



- Integration of Multiple Systems.
- Specification of Protocols and Communications.

### Upgrading



- Modification to meet Process Changes.
- Hot Change Out.
- Re-Programming , Re-Configuration and Re-Tuning.
- Expansion of Control Systems .

### Installation



- Installation and testing of our systems.
- Field Wiring.
- Termination.
- Demobilization of Equipment.
- Mobilization of New Equipment.



# INTRODUCTION

## WHAT WE DO...

### Support & Maintenance



- Planned Maintenance.
- Preventive Maintenance.
- Spares Management Programs.

### Training



- For all systems provided and supported by us.
- In House Training.
- Onsite Training.
- Maintenance Manuals.

### Auditing



- Pre and post Audit of control systems.
- Financial evaluation of installations.
- Assessment of upgrade, modification & replacement costs.
- Techno Economic Analysis.

# INTRODUCTION

## OUR CORE BUSINESS LINES



# Hydrometric & Environmental Solutions



# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## INTRODUCTION...

FB GROUP is considered one of the most important key players in Jordan for the hydrometric and environment sector, having long history of projects and strong references with most of the important clients including, but not limited to: Ministry of Water and Irrigation, Water Authority of Jordan, most of the public universities, as well as national and international agricultural, environmental and water research centers.

We offer high quality and performance integrated solutions across a wide variety of fields, including: agricultural systems, meteorological systems, water systems, industrial systems.

Our integrated instrumentation is well known for its flexibility, precision measurements, and dependability even in harsh and remote environments.

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## **PARTNERS...**

### **PICARRO – USA:**

Picarro is a leading provider of solutions to measure greenhouse gas (GHG) concentrations, trace gases and stable isotopes (water, Nitrogen, and Carbon) across many scientific applications for air, water and soil, as well as industrial markets including: food and beverage, health and safety, petrochemical and pharmaceutical.

The Picarro logo consists of the word "PICARRO" in a bold, sans-serif font. The letter "A" is stylized with a green horizontal bar across its middle. To the right of the text is a blue graphic element consisting of several overlapping, curved shapes that resemble a stylized mountain range or a series of peaks.

### **Scentroid – Canada:**

Scentroid is the world leader in air pollution and odour measurement equipment and services, and the premier manufacturer of odour sampling and analysis equipment, as well as the developer of state-of-the-art instrumentation for environment, nuclear, and medical industries.

The Scentroid logo features the word "SCENTROID" in a blue, sans-serif font. The letter "I" is lowercase and has a dot, while the other letters are uppercase. The logo is positioned to the right of the "Scentroid – Canada:" header.

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## SOLUTIONS...



Rain Fall Stations



Ground Water Stations



Ground Water Stations



Water Quality Stations

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

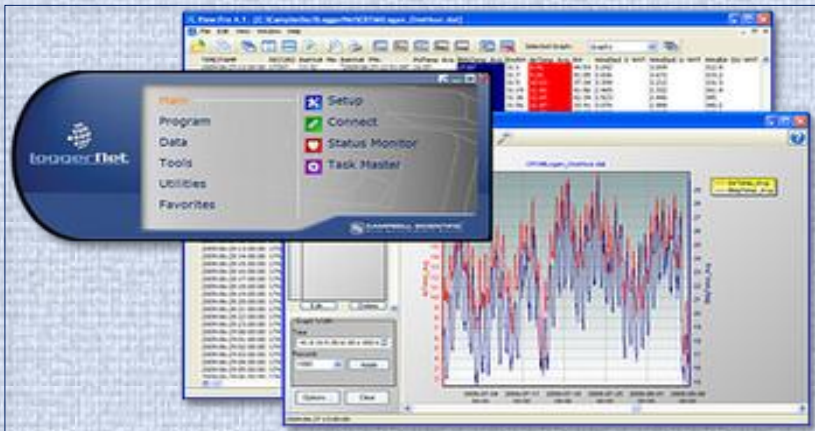
## SOLUTIONS...



Data loggers & Data Acquisition Systems



Measurement & Control Peripherals



Softwares



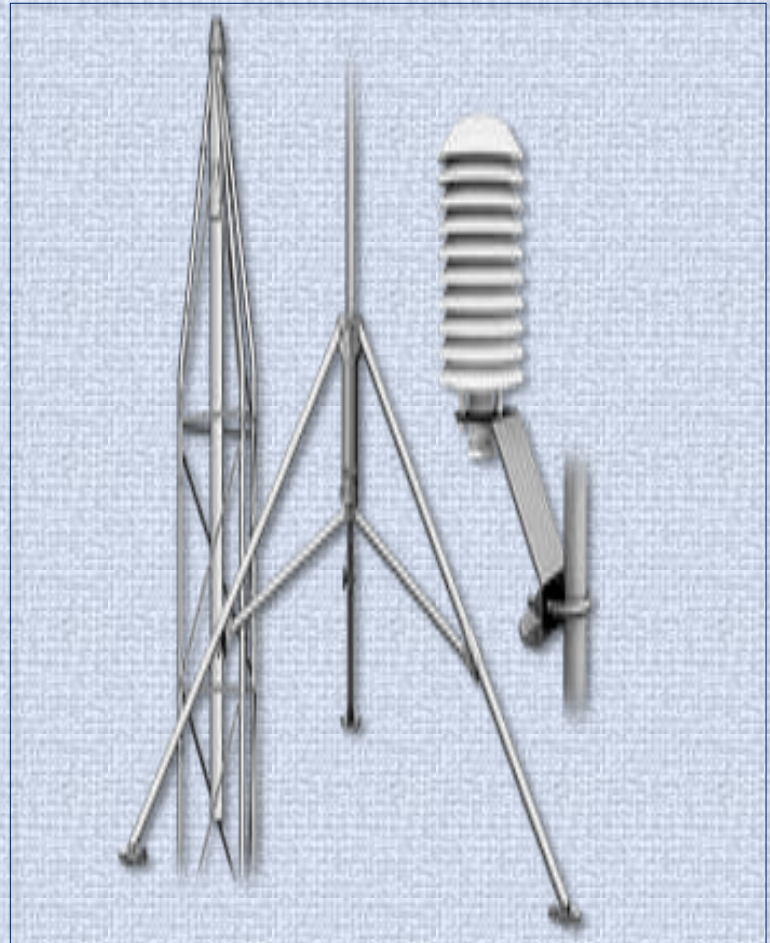
Sensors

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## SOLUTIONS...



Power Supply



Tripods, Towers and Mounts



Enclosures



# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## SOLUTIONS...



Analyzers & Peripherals



Sampling Equipment



Olfactometers



Chemical Analyzers



Analytical and Sampling Lab Equipment

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## List of References ...

Client	Project
<b>2020 - 2022</b>	
Water Authority of Jordan	Water Analysis Equipment, $\delta^{13}C$ analysis in DIC (liquids) and carbonates (solids) >> Operation and maintenance
<b>2019 - 2022</b>	
University of Jordan	Automatic Weather Station (Water, Energy and Environment Center) >> Operation and maintenance
<b>2017 - 2018</b>	
Ministry of Water and Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 145 stations
<b>2017</b>	
Al Hussein Technical University	Automatic Weather Station for Researches Purposes - Donation >> Supplying, installation, commissioning, operation and maintenance
Irbid Specialized Hospital	Automatic Weather Station - Integrated with 0.80 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
Civil Defense Directorate	Automatic Weather Station - Integrated with 1.1 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
German Jordanian University	Automatic Weather Station - Integrated with 2.11 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
Al Hussein Bin Talal University	Automatic Weather Station - Integrated with 3 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## List of References ...

Client	Project
<b>2016</b>	
International Center for Agricultural Researches in Dry Area, Egypt	Simultaneous Conductivity Magnetic Susceptibility Meter
Hashemite University	Automatic Weather Station - Integrated with 5 MW solar power plant >> Supplying, installation, commissioning, operation and maintenance
<b>2015 - 2016</b>	
Ministry of Water and Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 130 stations
<b>2015</b>	
Water Authority of Jordan	Water Analysis Equipment, $\delta^{13}\text{C}$ analysis in DIC (liquids) and carbonates (solids) >> Supplying, installation, commissioning, operation and maintenance
<b>2014</b>	
The University of Jordan	Automatic Weather Station (Program of MSc in Climatic Environment) >> Supplying, installation, commissioning, operation and maintenance
Water Authority of Jordan	PV Water Pumping Systems
International Center for Agricultural Researches in Dry Area, Jordan	Automatic Weather Station >> Supplying, installation, commissioning, operation and maintenance

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## List of References ...

Client	Project
<b>2013</b>	
Yarmouk University	Wireless Sensor Network Components >> Supplying, installation, commissioning, operation and maintenance
The University of Jordan	Automatic Weather Station (Water, Energy and Environment Center) >> Supplying, installation, commissioning, operation and maintenance
Tabuk University - KSA	Water Quality Station, Phase 2
<b>2012</b>	
Tabuk University - KSA	Water Quality Station, Phase 1
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network, Phase 3; >> Supplying, installation, commissioning, operation and maintenance of 30 stations
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 105 stations
BGR - Ministry of Water & Irrigation	Operation and maintenance of 11 stations at Al Disi (Ground water, supplied by OTT)
<b>2011</b>	
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network, Phase 2; >> Supplying, installation, commissioning, operation and maintenance of 35 stations

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS

A large dam structure with water flowing through its spillways, set against a backdrop of mountains and a clear sky.

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS...



**Ground Water Station Mahasi, AL-Ramtha  
TeWaRON 3**



**Ground Water Station Wadi Al Walah,  
Madaba, TeWaRON 2**



**Rain Fall Station Wadi Mousa School  
TeWaRON 3**

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS...



**Water Quality Station Red Sea, Tabuk University, KSA.**



**Turbidity & Chlorine In Water Spring Measuring Station, Ajloun.**



**Automatic Weather Station, University Of Jordan, Amman.**

# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS...

**Automatic Weather Station - Hashemite University, Az-Zarqa  
Integrated with 5 MW Solar Energy Plant**





# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS...

**Automatic Weather Station**  
**Al Hussein Bin Talal University, Ma'an**  
**Integrated with 3 MW Solar Energy Plant**



**Automatic Weather Station**  
**German Jordanian University, Madaba**  
**Integrated with 2.11 MW Solar Energy Plant**



# HYDROMETRIC & ENVIRONMENTAL SOLUTIONS

## ICONIC PROJECTS...



**Isotopic CO<sub>2</sub> System  $\delta^{13}\text{C}$  Analyzer.**

**Water Authority of Jordan – Labs & Quality Affairs.**

# SUMMARY

## OUR ADVANTAGES

- Diversity of business. We provide our solutions in many different sectors and capable to perform the best among others, having the best confident capacities and abilities.
- Having the most powerful political relations and influences in the Kingdom with both private and public sectors, coming from our diversity of business during the past years.
- Having a powerful financial situation built during the past years with especially with our financial partners and developers.
- Being an agent and a distributor for many reputable manufacturers.
- Commitment, trustable and comfortable to deal with.
- Providing innovation and customer satisfaction.
- Providing highly reputable and well established brands which cater to the exact requirement of clients, within budget and on-time.

## WE AT FB GROUP...

**Strongly Believe that We Have the Capabilities, Knowledge and Strength to Satisfy Our Client's Requirements and Exceed Their Expectations...**

# SUMMARY

## OUR ADVANTAGES

- Diversity of business. We provide our solutions in many different sectors and capable to perform the best among others, having the best confident capacities and abilities.
- Having the most powerful political relations and influences in the Kingdom with both private and public sectors, coming from our diversity of business during the past years.
- Having a powerful financial situation built during the past years with especially with our financial partners and developers.
- Being an agent and a distributor for many reputable manufacturers.
- Commitment, trustable and comfortable to deal with.
- Providing innovation and customer satisfaction.
- Providing highly reputable and well established brands which cater to the exact requirement of clients, within budget and on-time.

## WE AT FB GROUP...

**Strongly Believe that We Have the Capabilities, Knowledge and Strength to Satisfy Our Client's Requirements and Exceed Their Expectations...**