

# Corporate Profile

· Cultivate · Innovate · Automate  
Ahead Of Time





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## About Dpstar

Our engineered solutions are designed and tailored to meet demanding client requirements across a spectrum of applications, process and industry standards.

### With Experience Across All Areas, We Can Provide The Best Of:

- Electrical & Process Heater Design and Manufacturing
- Skid & Process Equipment Design and Manufacturing
- Electrical Heat Tracing
- Thermocouple Manufacturing
- Instrumentation/Analysers/Sensors
- Factory Automation & Control Components
- Building Automation
- Process Hybrid Control Systems
- Programmable Logic Controllers (PLC)/SCADA/HMI
- Distributed Control Systems (DCS)
- Electrical, Site Works, Commissioning
- Engineering, Project Management, Construction
- Drive and Motion Systems
- System Integration
- Control Panel & Switchboard Building
- Process Optimization
- Plant Floor Networking
- Temperature & Humidity EMS, BMS, Mapping, Calibration
- Field Installation and Start-up
- Weighing Process
- Electrical CAD Drawing
- Prototype, Design, Research & Development
- Consulting Services

Dpstar does not compromise on the solution that will deliver to you. Our solutions typically utilize our staff for engineering, manufacturing, assembly, commissioning, and electrical contracting. We have no tolerance for poor workmanship and will go the extra mile to do things right. That's way, we know our product will perform for you.

## Corporate Overview

Dpstar Group of Companies specialises in engineering, through our track record of over 30 years in the industry, we have grown from strength to strength and today we have built a strong regional presence in most major cities in Malaysia and South-East Asia. Our core area of expertise lies in factory automation, process control, electrical works, engineering systems, and instrumentation. Machine makers, HVAC contractors, and system integrators engage us for OEM manufacturing for our thermocouples (temperature sensors) and electric heating elements. We represent more than 60 globally renowned brands for all electrical, instrumentation, automation, and control requirements. Lastly through our engineering and projects department, we are able to build, design, and integrate process control, electrical & instrumentation & automation solutions to help our clients achieve their specific requirements.

## Our Vision & Mission

Through continuous investment in research and development, our engineering team is able to develop a pattern of constant innovation, in-line with our commitment towards achieving the best products. Close to 200 staffs call themselves family in Dpstar Group, in one production centre and 14 sales offices throughout Malaysia with associate and partner companies in Philippines, Thailand, Singapore and Indonesia. Our strength lies in our ability to innovate ahead of our time.

Our vision is simply to be a Malaysian and regional champion in design, projects, and manufacturing of process heaters, thermal engineering, electrical industrial heaters, thermocouples, and temperature sensors. Besides that, we also aspire to be a world-class engineering company by working with various partners across the world to provide superior products & solutions in factory process control and automation. In all our projects, we leave no stone unturned from design stage, to implementation, testing and commissioning, we take great pride in our work and ensure that we deliver everything we promise.

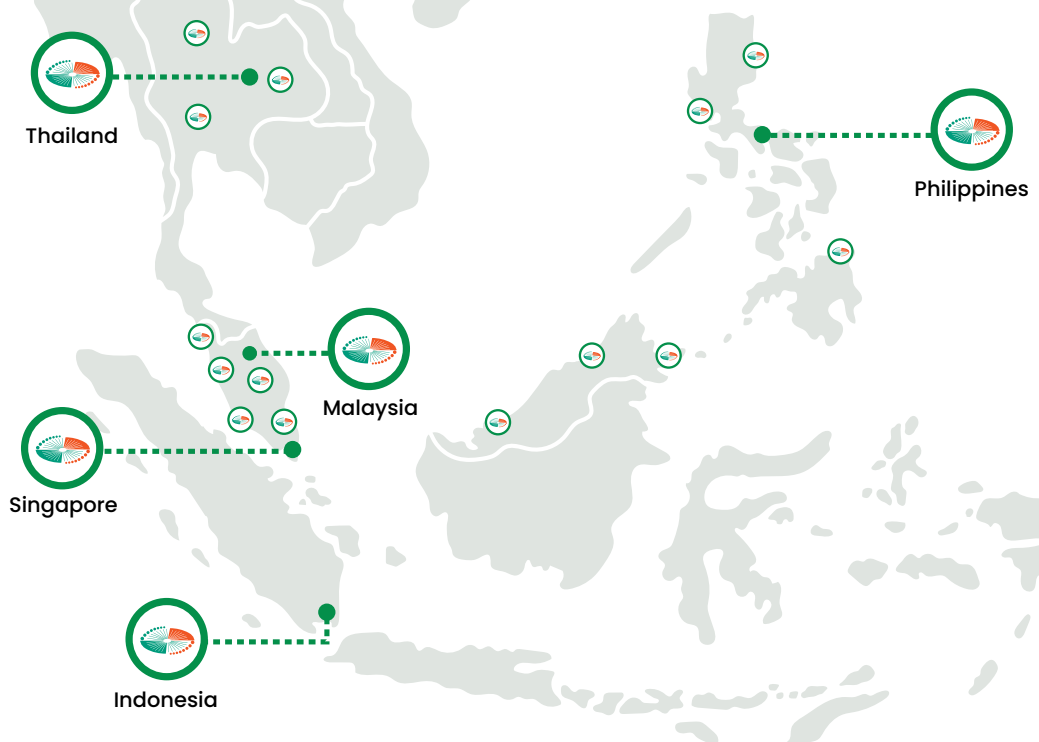
## Quality & Policy



## Our Experience



## Sales & Associates Offices



## Manufacturing & Engineering

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In being a leader in providing total solutions for industrial, building and process automation, Dpstar Group also have its own production centre, Dpstar Manufacturing Sdn. Bhd. Maltec-H and Maltec-T are our house brands for heaters and thermocouples that our factory manufacture to suit exacting automation needs.

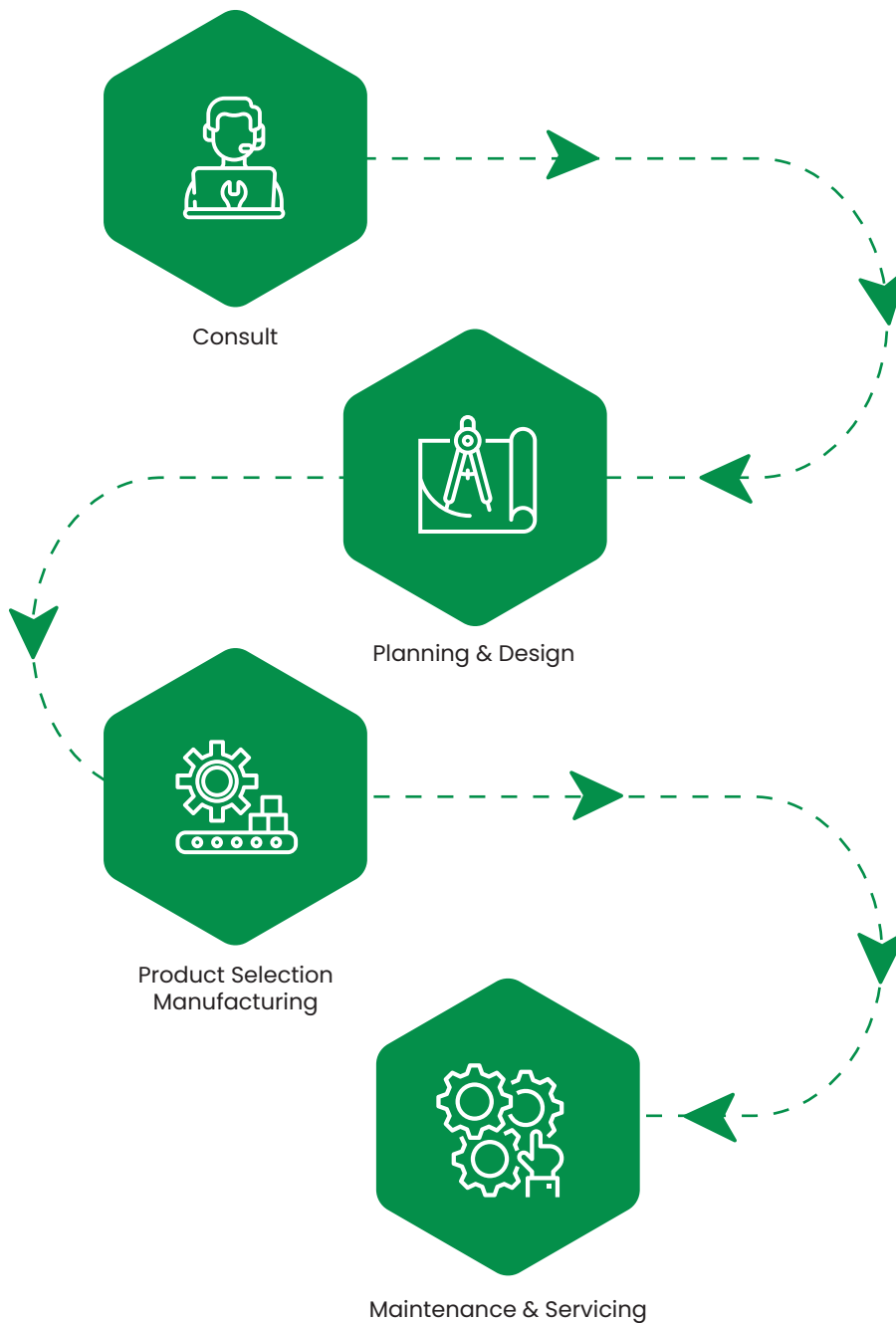
In preparation for a forecasted increase in the automation market, we have increased our intensive product development investment to ensure constant ground breaking initiatives. Our future activities will be fueled by our commitment to "Cutting Edge Technology" as we move into the future, we proceed in line with the advances in resources and technologies.



# Design Expertise

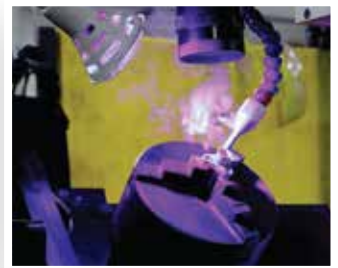
Dpstar design teams support our partners from conceptual design and feasibility study throughout the life cycle of the equipment. Our design capabilities include :

- Process heater design
- Thermal design
- Electrical design
- Electronic design (hardware and software)
- Mechanic design
- Temperature control design
- Hazardous area certification



## In-house Capabilities

- Hydrostatic test
- Helium leak test
- Pressure test
- Calibration
- Control Panel Design & Construction
- Prototyping & Testing
- Thermal engineering
- Heating simulation
- CAD Drawings
- CNC Machining
- Hi-Pot Test
- Electrical Resistance test
- Explosion proof and hazardous zone
- ASME code
- DOSH Approvals



## Complete Supply

- In-house manufacturing
- Technical design support
- Dedicated project teams
- After sales support services
- On site commissioning and start up assistance

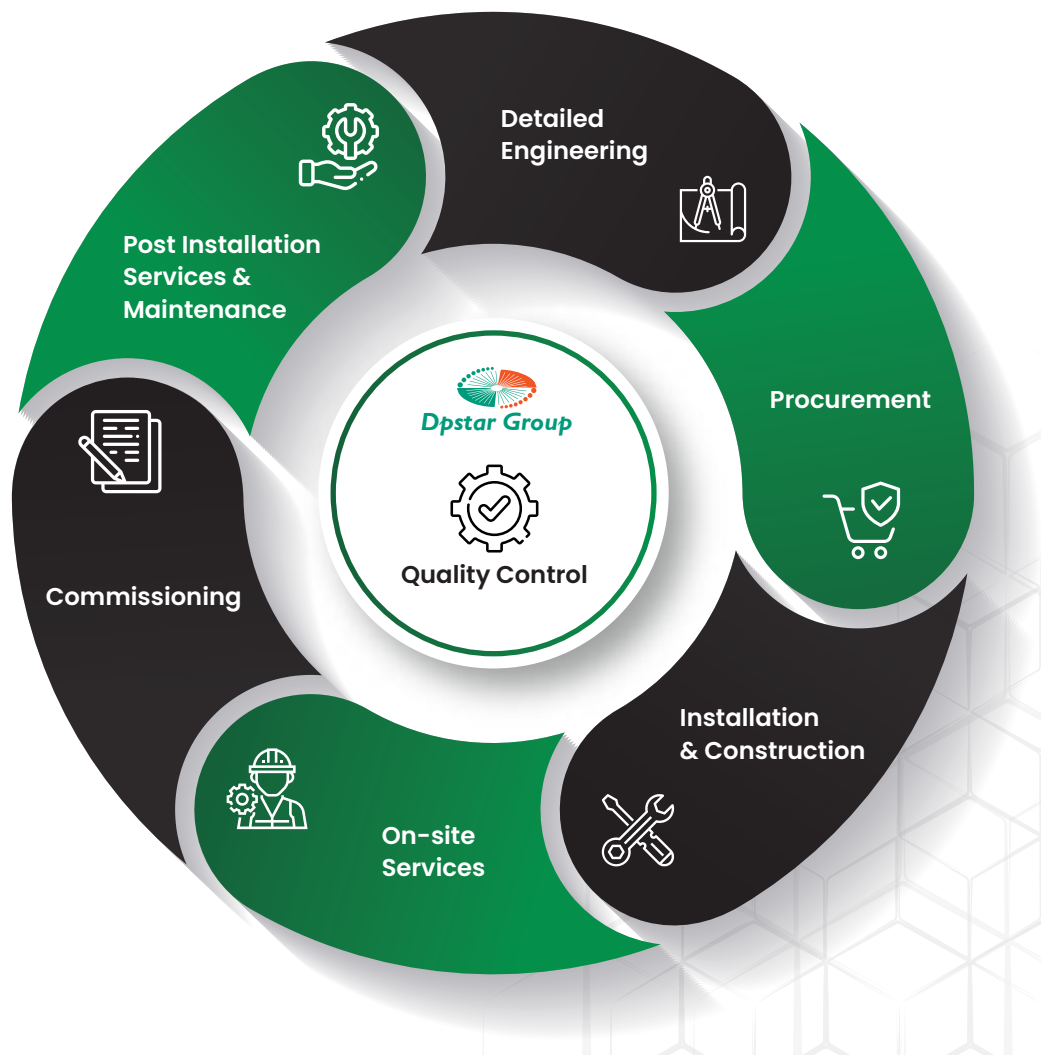
# Engineered Solutions

Dpstar Group has been specializing for the past 30 years in 8 core business verticals and end-to-end design, products, and solutions for our partners and clients. Every industry is different. We provide you with end-to-end and tailor solutions for all your Engineered Solutions requirements. We take a modular approach to system design and implementation and specialize in cost-effective, expandable solutions to increase your flexibility.

Our engineers have developed expert-level skill in using the most advanced technology for all phases of plant design and engineering. Whether you need to engineer a single system or process or plan and build a new manufacturing plant from the ground up, our experienced engineers will assist you to get an entirely new process up and running and quickly achieve its highest level of efficiency.

Our Engineer Teams maintain the highest levels of expertise in the automation, electrical equipment, and processes used in your industry. The result is technically accurate, high-quality work approaching zero defects, enabling customers to construct with confidence. Our ability to consistently deliver top-quality Engineered solution is the reason 80% of our work is additional projects from satisfied long-term customers.

# Turnkey Solutions



## Industries Served

- Industrial Process
- Electronic & Semiconductor
- Aluminium Production
- Building & Facilities
- Cement and Glass
- Data Centre Automations
- Energy & Utilities
- Food & Beverage Manufacturing
- Marine Vessel Management
- Metal Processing
- Mining & Minerals Processing
- Oil, Gas and Petrochemicals
- Chemicals – Specialty & Consumer Products
- Original Equipment Manufacturer (OEM)
- Pharmaceutical and life Sciences
- Printing
- Transportation
- Ports
- Climate Control
- Pulp and Paper Manufacturing
- Road & Tunnel Infrastructure
- Water & Wastewater



## Certifications



Trusted by  
Our Clients







## Manufacturer of Electric & Process Heating Elements

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Discover our range of standard products and customised design for general, Industry & OEM.

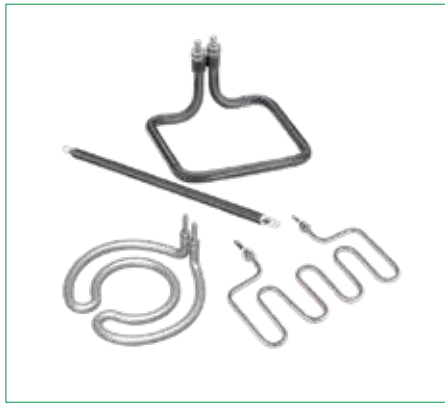
## Heating of Liquid

Heating of a liquid can be done by using several types of heater and/ or a combination of heater. Some heaters physically lend themselves to direct immersion in the liquid, while others are better suited for heating a pipe or vessel containing the liquid.

### Products for Heating a specific object



Immersion Heater



Tubular Heater



Teflon Heater



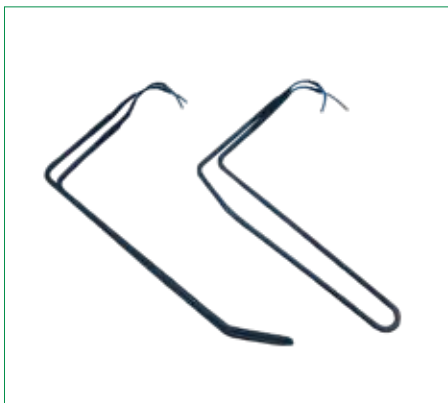
Inline Circulation Heater



Bobbin Heater



Drum Heater | Jacket Heater



Defrost Heater



Flexible Silicone Rubber Heater



Explosion Proof Heater



## Heater Customised Solutions



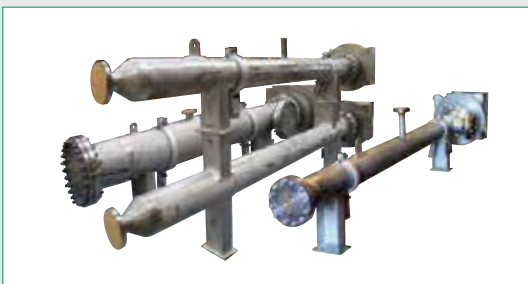
- Flange heater for large oil tank
- 248 kW - ND 20"
- Withdrawable heating rods
- Gost R certification



- Lube oil tank heater
- 23 kW - 45°C
- ATEX certification : II 2 G Ex e II T6



- Seal gas super steam heater unit
- Cyclon drop separator
- 260 kW - 320°C - 16 bar g
- Design code : ASME



- Flow heater package for CCR's regenerator
- Heating capacity from 77 up to 1380 kW
- Air/N<sub>2</sub>/H<sub>2</sub> heating up to 565°C - 10 bar g
- ATEX certification : II 2 G IIC T3

- Power control panels from 150 up to 2500 A for CCR heaters
- 100% power controlled by thyristors
- Incoming/outgoings protected by MCCB

## Heating Of Air | Gas | Mould

Dpstar provides a wide range of application for Heating Air. From small electric radiators to large heaters. We also manufacture products certified for use in potentially explosive atmospheres. Products for heating a specific object includes the heating of tools, piping, injection-moulding equipment, welding jaws, packaging machines, extruders and etc as well as for tempering and drying processes.

### Products for Heating a specific object



Tubular Heater



Bundle Heater



Finned Heater



Ducting Heater



Anti Condensation Heater



Air Immersion Heater



Cartridge Heater



Silicon Carbide (SiC) Heater



Ceramic Bobbin Heater



Pencil Heater



Ceramic Fiber Heater



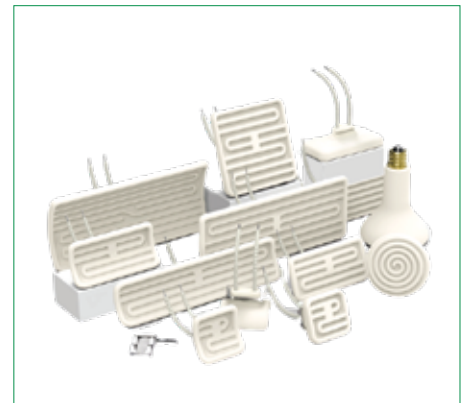
Flexible Silicone Rubber Heater



Air Circulation Heater



Hot Air Blower



Ceramic Infrared Heater



Quartz Infrared Heater



Infrared Silica Quartz Heater



Halogen Infrared Heater



Black Infrapara



Band Heater | Ceramic Band Heater | Cast Heater | Strip Heater



Mineral Insulation Heater

# World-Class Electric Heating Solutions

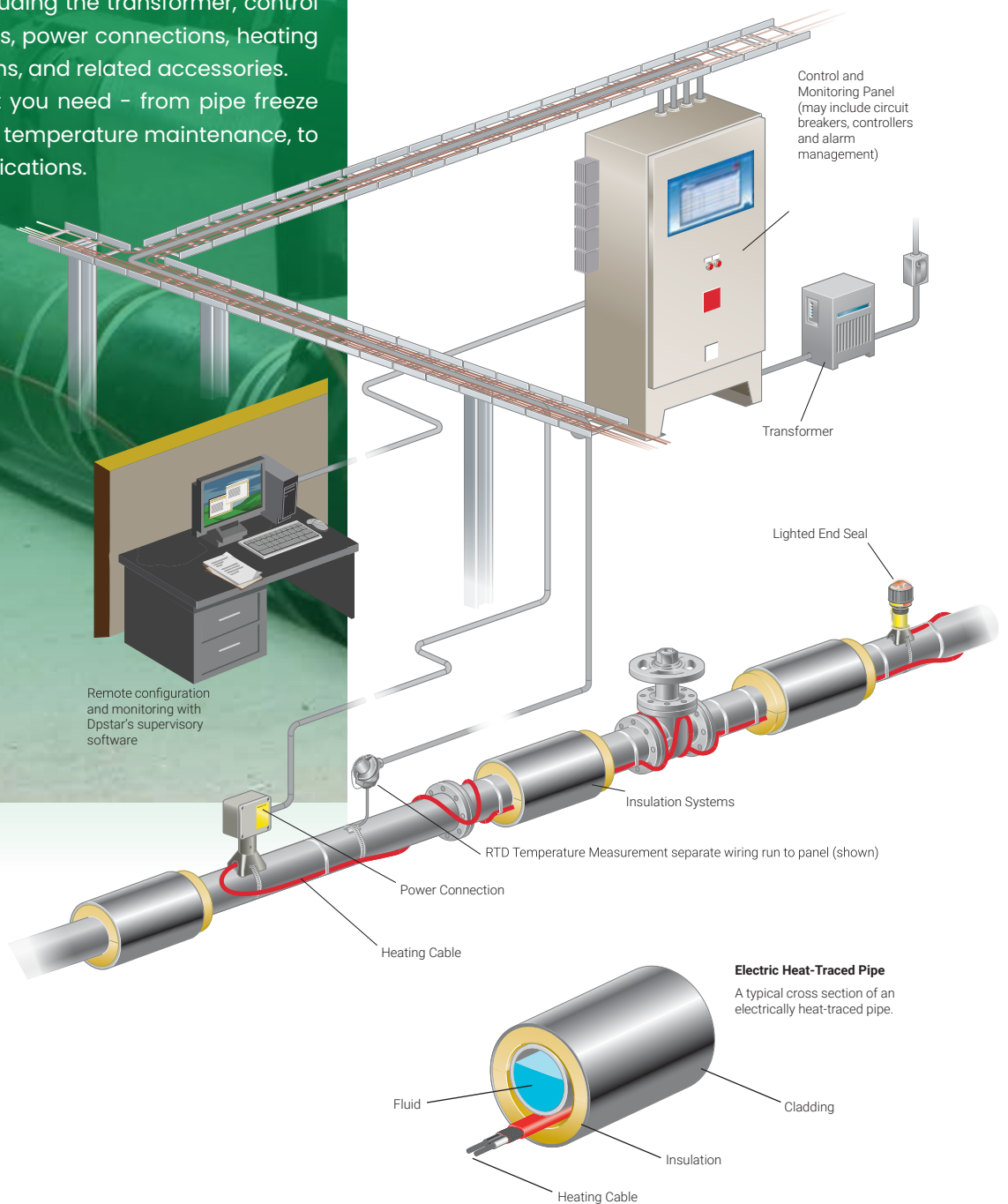
What Makes Us Different?

**Design, Supply, Installation, Testing and Commissioning.**

An electrical heat-tracing system is much more than just the heating cable. Dpstar provides a complete system including the transformer, control and monitoring panels, power connections, heating cable, end terminations, and related accessories. We manage the heat you need - from pipe freeze protection, or process temperature maintenance, to process heat-up applications.

## All In One

# Electric Heat Tracing Packages!



## Project References

Dpstar can help you with all aspects of heat tracing for pipes, vessels, instrumentation and other process equipment. Together we can ensure that materials selection circuit layout, installation and operating costs will all be considered for your particle application. From initial planning stages through installation and final commissioning, Dpstar provides a total systems approach precisely tailored to meet your heat tracing needs.



**Installing New Heat Tracing Wire And Thermostat Enclosure, Testing & Commissioning**



**Design, Commissioning and Installation of Heat Tracing Cable for Palm Oil Industry**

### Our Clients







## Manufacturer of Temperature Measurement & Temperature Control Devices

—  
Discover our ranges of standard products and  
customised design for general, Industry & OEM

# Thermocouple | Temperature Sensor



## Standard Thermocouple | RTD PT100 Sensor 4-20mA Transmitter (Optional)

- Protection tube, for screw, flange or welding connection
- Replaceable inserts with ceramic terminal block or transmitter
- Abrasion or chemical-resistant coating possible



## Thermocouple | RTD PT100 With Thermowells | Protection Tubes

- Metal, silicon-carbide or ceramic protection tubes
- Gas tight and temperature resistant models
- Platinum thermocouples in premium quality



## Explosion Proof Thermocouple

- Single or multipoint sensors for insertion or surface measurement
- Sensors for zone 0, 1 & 2
- Molded cable or with connection head in SS or aluminium



## Thermowells

- Barstock SS, Inconel, Monel, Hastelloy or other high quality alloys
- Welding qualifications, stress & vibration calculations
- Testing, hydrostatic and/or dye-penetrant, in the factory



## Mineral Insulated Thermocouple And Pt100 Resistance Thermometers

- Thermocouple from 0.15mm, PT100 from 0.5mm outside diameter
- Insulated or grounded hot junction with quick response time
- Class 1, IEC specifications, Sheath Material SS, Inconel, Hastelloy





### Custom Built Temperature Sensors

- Custom made assemblies
- Design and prototype manufacturing
- Technical support with more than 30 years experience



### Surface-Sensors

- Magnetic, self adhesive or mechanical connection
- Quick response time, tip sensitive
- Temperature isolated mounting parts



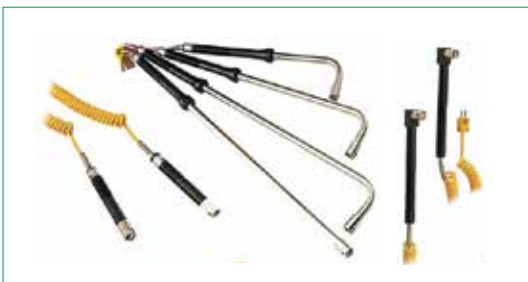
### Vibration Proof Sensors For Marine And Diesel Engines

- Springloaded construction for use in pockets
- Oil and heat resistant cable



### Sensors For The Plastic Industry

- Bayonet or screwed connection
- SS or nickel-plated mounting adapters
- Customer-specific stock and supply handling



### Handheld Probes

- Thermocouples type K with mini thermocouple connector
- PT100 in 3 or 4 wire system
- ABS handle with coiled or straight cable



### HVAC Temperature Sensor

- For HVAC Appliances & Industrial Applications
- Probe with mounting flange, plastic, galvanized steel, NEMA-4 /IP-65 steel closure



### Tube Skin Boiler And Furnace Thermocouple

- V-shape or welding pad with optional insulation and insulating cover
- Sheath 310SS, 446SS, Inconel, Pyrosil D, Hasteloy X, or Haynes HR160



### Small Diameter Multipoint, Multilevel Thermocouples For R&D, Reactors, Vessels And Tanks

- Diameter starts from 1.5mm with 3 points up to 6.4mm with 12 points
- Bendable or stiff tube from SS, Inconel, Hasteloy etc



### Thermocouple Wire And Extension Cable

- Deliverable for all types of thermocouples
- Insulation possible such as PE, PTFE, PVC and glassfibre
- On the roll or reel, from stock



### Connectors And Accessories

- Miniature and standard connectors
- Standard up to 260°C high temperature version up to 540°C
- Chassis parts with optional aluminium mounting frame

**Temperature | Humidity | Dew Point**



Temperature | Humidity Controller | Programmable Digital Controller | Chart Recorder & Power Regulator



Thermal Imaging System | Non-contact Infrared Sensor | Line Scanner



Industrial Measurement | Temperature & Humidity Transmitter | Datalogger | Handheld



Controller for Refrigerator Defrost | Chiller | Freezer



Chart Recorder | Chart Paper | Paperless Chart Recorder



Universal Transmitter | Converter | IS Barrier | Signal Isolator | Splitter



Temperature Gauge | Thermometer



Thermocouple | RTD | Thermowell



RTD Sensor For PT50 | PT100 | PT500 & PT1000

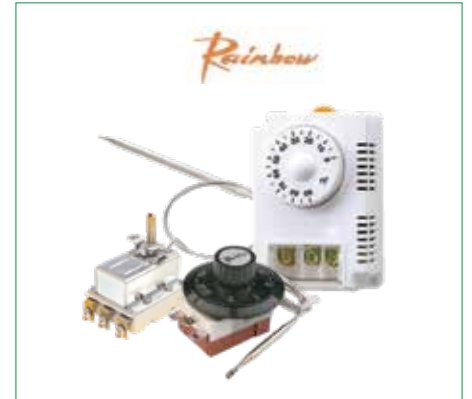
Temperature | Humidity | Dew Point



Dewpoint Transmitter | Calibration Instruments



Rod Thermostat | Room Thermostat



Capillary | Panel Thermostat



Temperature & Humidity Transmitter



WiFi Data Loggers



Recorder | Controller | HMI



ATEX Temperature Sensor



Temperature Calibration & Measurement



Industrial Calibration

Pressure | Weight



Differential Pressure Switch | Transmitter



Pressure | Differential Pressure Gauge



Pressure | Differential Pressure Transmitter



Differential Pressure Gauge | Filter Alert



Explosion Proof Pressure & Differential Transmitter



Pressure Gauge | Transmitter



Pressure Calibration



Temperature | Humidity & Pressure Transmitter



Load Cell | Weighing Indicator & Controller

Level | Flow



Level Sensor | Float Switch



Flow Meter For Liquid & Gas Measurement



Electromagnetic Flow Meter | Hydrostatic Level Probe



Air Flow & Velocity Transmitter



Liquid Flow Switch



Air Flow Switch



Level Sensor



Ultrasonic Flow Meter

Automation

**HANYOUNG NUX**



Limit | Micro Switch | Signal Light | Buzzer | Counter | Timer

**connectwell**  
THE RIGHT CONNECTION



Spring Clamp Terminal Blocks

**ALISH**



Panel Meter | Proximity Sensor | Photoelectric Sensor

**PR**  
electronics



Signal Conditioner & Isolator

**VETRIX | ecOSTAR**



Thyristor Power Regulator | SCR

**SHIMADEN**



Thyristor Power Regulator

**simex**



Recorder | Contoller | HMI

**Ohkura**



Chart Recorder | Chart Paper | Paperless Chart Recorder

**FINE SUNTRONIX**



Switching Mode Power Supply

Automation

**DCbox**



Panel Meter | Transducer | Transmitter

**KYOTTO** | **celduc**



Solid State Relay | SSR

**NIPPON**



Ceramic Terminal Blocks

**OMRON**



Factory Automation System

**Kubler**



Incremental & Absolute Encoders | Preset Counters | Timer

**Beijer**  
ELECTRONICS



Industrial Touch Screen | HMI

**ABB**



Low Voltage Products

**FE Fuji Electric**



Low Voltage Products

**CVS**



Enclosure System



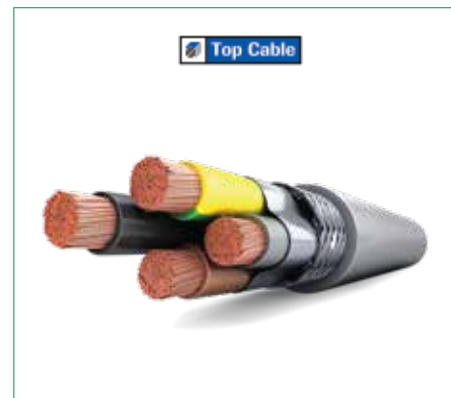
**Cables & Wires**



Thermocouple Wire



Armour & Multi Pair Cable



Power | Control | Instrumentation Cable



Heat Resistance Cable



Instrument Parts & Components



High Temperature Heat Resistance Wire

**Instruments**



Industrial Testing Equipment



Handheld Thermometer



Measuring Instruments

Dehumidifier | Humidifier | Portable Cooler



Commercial Dehumidifier | Industrial Dehumidifier



Ceiling Dehumidifier



Ultrasonic Humidifier



Cooling Panel Unit



Plant | Warehouse Air Cooler



Industrial Air Cooler

Calibration Service

- Temperature
- Humidity
- Pressure
- Weight
- Electrical
- Others

Drive and Motion System

SIEMENS



Siemens Frequency Inverter | AC Drives

SIEMENS



Soft Starter

SANYU



Soft Starter | Frequency Inverter





## Control Panel Manufacturer

As a Malaysia based control panel manufacturing specialist, we understand the needs to deliver reliable, flexible, and cost-effective with high quality solutions. We are well experience to design and build control panels for control systems, electrical control panels and PLC's to suit all industrial applications.



## Our Experience, Engineering & Planning Make The Difference

Dpstar can design and build system that fulfilled your needs by listening and understanding your requirements. From simple, basic control panels to special, complex build, we can build a control system that will comfortably fit any machinery or custom project you may have. We cover all aspects of control panel building from design to manufacture and software programming with fast lead-times.

We manufacture control panels with automation systems with solution from Siemens, Omron, Fatek, Allen Bradley, Rockwell and etc.

Our reputation for delivering electrical panels that meet our customers' requirements is second to none. Today we serve over 100+ customers in different markets, all requiring different varieties of control panels.

Dpstar are always eager to expand our offering. We currently produce a wide range of control panels. We have over 4,000+ different products in our system. This number is continuously expanding, and Dpstar is always eager to take on a challenges! We strive to provide reliable and innovative solutions to our customer, together leading the charge into 4th industrial revolution.

## Our Range of Control Panel

### MCC Control Panel



MCC stands for a motor control centre, MCC Control Panel consists of feeder for motor and blower and designed especially for motor operations. The MCC receives a signal from the control panel and which is used to control motor. The MCC is directly connected to the analogue motor. They are most commonly used in industrial and commercial facilities where there are plenty of electrical motors at use.

MCC Control Panel is an assembly of one or more enclosed section having a common power bus containing motor control units including:

- Soft Starters
- Variable Frequency Drives (VFD)
- Start-Delta Starter
- Auto-transformer Starters
- Direct Online Starters

### PLC/SCADA/HMI Control Panel



The PLC stands for Programmable Logic Controller and SCADA stands for Systems Control and Data Acquisition. PLC panels are a type of control panel that is programmable to the required sequence and also follow the flow of the process. A powerful CPU acts as the main brain for controlling all the other panels and machines. PLC Panel designed for controlling various manufacturing processes and ideal solution for automation.

The HMI stands for Human Machine Interface. HMI Panels function as an interface between a user and a machine. An HMI provides a visual representation of the status of a control system with real-time data acquisition. Basically, they will show the alarms on the picture, floor plan or process flow. The alarms can be indicated by LEDs, Annunciator Windows or Touch Screen. This means that users can customize the layout and control functions according to their own specifications.

At Dpstar, our experienced team can assess your current systems to evaluate as to whether you would benefit from a new system Modern PLC's/ HMI's and SCADA systems can give your equipment a new lease of life, helping increase productivity, along with saving time and money down the line.



## Design & Engineering



**Padiberas Nasional Berhad (BERNAS)**



**PETRONAS**



**Malaysia Holdings Berhad (MSM)**



**CEMEX**



**FGV**



**OSRAM**



**AJINOMOTO**



**SIME DARBY**



**SYNCOATES**

## Our Clients

|   |   |   |   |   |  |   |   |   |
|---|---|---|---|---|--|---|---|---|
|  |  |  |  |  |   |  |  |  |
|  |  |  |  |  |  |  |  |  |

## Dosing & Injection Packages

Where time is precious, costs are high and processes are intense. Dosing and injection systems provide a tailor made guarantee of precision, durability and reliability.

Injection and dosing systems for chemicals tend to be subject to very exacting requirements, with tailor made designs usually being required for a specific application and industry. There is also enormous demand for reliability and easy maintenance in extremes of environment be they hot, cold, on land or in the ocean.



## An Experienced & Reliable Partner For Production Process & Utility Plant Solutions.

Dpstar Has Linked Its Success To Wide Range Of Industrial Fields By Supplying Reputable Instrumentations, Pumps, Drives And Engineered Packages.

The main industry application by DPSTAR :

- Water Treatment (Municipalities, Wastewater)
- Industry Sectors (Steel, Ceramics, Food & Beverages, Detergents, Paper, Textile And Pharmaceutical Industries)
- Energy (Boilers, Desalination, Cooling Water Treatment, Environment)



## Dpstar Capabilities

- Applications ranging from water treatment to oil & gas, and the food industry.
- Design and implementation of systems from mechanical installation to electrical and automation systems.
- Ability to match multiple parameter – variances in Pressure & Flow rates, adverse environmental conditions, marine environment, ATEX / NON ATEX.
- Professional design programs, software and personnel that ensure safety to processes.
- Optional accessories: atomizers, instrumentation, custom connections, heating system and etc.
- Own maintenance service, prompt interventions, warranty of maintenance.









**Dpstar Group**

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GET IN TOUCH

