Temperature and Humidity Data Loggers Portfolio

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USB Data Loggers

DHTZ05 | Single-Use Temperature Data Logger

Features

- Temperature measurement and recording
- CR2032 button battery with shelf life up to 2 years
- High precision ±0.5°C and high sensitivity
- Universal USB 2.0 communicating interface
- Temperature alarm reporting
- Easy operation by pressing on/off button
- LED light indicator for different status
- No software is required to extract PDF report

Technical Specification	
Dimensions	67mm*28mm*5.5mm
Weight	12g
Temperature Accuracy	±0.5℃ (-20℃~+40℃); ±1.0℃ (other range)
Operating Range	-30℃ to +60℃
Recording Option	Single-Use, Disposable
Data Storage Capacity	10,000 readings
Shelf Life / Battery	2 Years
Recording Interval	15 mins
Recording Duration	90 Days
Temperature Alarm Range	＞5℃ or <15℃
Alarm Type	Red LED will flash every 10s if temperature out of range
Start Delay	30 mins
Report Generation	Automatic PDF report
Waterproof Level	IP67 (with seal cover)

DHS05 | Single-Use Temperature Data Logger

Features

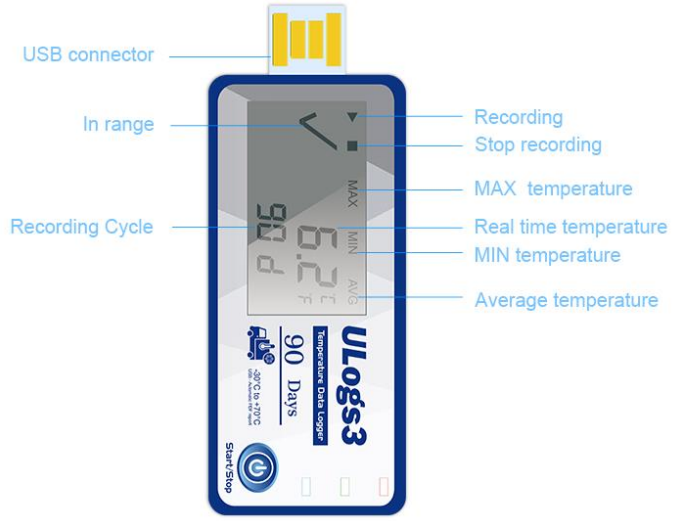
- CR2032 button battery with shelf life up to 2 years
- High precision ±0.5°C and high sensitivity
- Universal USB 2.0 communicating interface
- Temperature alarm reporting
- Easy operation by pressing on/off button
- LED light indicator for different status
- No software is required to extract PDF report

Technical Specification	
Dimensions	60mm*20mm*5.7mm
Weight	8g
Temperature Accuracy	±0.5 °C (-20°C to +40°C); ±1.0°C (other range)
Operating Range	-30°C to +70°C
Recording Option	Single-Use / Disposable
Data Storage Capacity	17,280 readings
Shelf Life / Battery	2 years
Recording Interval	10 mins
Recording Duration	120 days
Temperature Alarm Range	>2°C or <12°C
Alarm Type	Red LED will flash if temperature out of range
Start Delay	15 mins
Report Generation	Automatic PDF Report
Waterproof Level	IP67 (with seal cover)

ULogs3 | Single-Use Temperature Data Logger

Features

- CR2032 button battery with shelf life up to 2 years
- High precision ±0.5°C and high sensitivity
- Universal USB 2.0 communicating interface
- Temperature alarm reporting
- Easy operation by pressing on/off button
- LED light indicator for different status
- No software is required to extract PDF report



Technical Specification	
Dimensions	59mm*20mm*80mm
Weight	20g
Temperature Accuracy	±0.5 °C (-20°C to +40°C); ±1.0°C (other range)
Operating Range	-30°C to +70°C
Recording Option	Single-Use / Disposable
Data Storage Capacity	17,280 readings
Shelf Life / Battery	2 years
Recording Interval	15 mins
Recording Duration	90 days
Temperature Alarm Range	>2°C or <8°C
Alarm Type	Red LED will flash if temperature out of range
Start Delay	30 mins
Report Generation	Automatic PDF Report
Waterproof Level	IP67 (with seal cover)

DHTZ08B | Single-Use Temperature and Humidity Data Logger

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Auto PDF/CSV Report
Automatically generate encrypted PDF/CSV format report, no software required to access data file.

Intuitive LCD Indication
LCD presents all key information including recording statistics, alarm and running status and remaining battery life.

Technical Specification	
Battery Shelf Life	2 Years
Dimensions	95.5mm*49mm*7.8mm
Weight	25g
Connectivity	USB 2.0
Temperature Range	-30°C to +60°C
Humidity Range	0% ~ 90% RH
Temperature Accuracy	±0.5°C (-20°C~+40°C); ±1.0°C (other range)
Humidity Accuracy	±5% (10% ~ 90%)
Temperature Resolution	0.1°C
Humidity Resolution	0.1% RH
Data Storage Capacity	32,000 readings
Start Delay	30 mins
Start Mode	Push-To-Start or Timing Start
Logging Interval	Programmable (10sec to 18 hours) - Default is 10 mins
Alarm Range	Configured by User
Alarm Delay	Configured by User (0 - 254 mins)
Report Generation	Automatic PDF/CSV report generation
Software	Temp (RH) Management Software
Protection Grade	IP54

TempU03 | Multiple-Use Temperature and Humidity Data Logger

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Auto PDF/CSV Report
Automatically generate encrypted PDF/CSV format report, no software required to access data file.

Intuitive LCD Indication
LCD presents all key information including recording statistics, alarm and running status and remaining battery life.

Technical Specification	
Dimensions	89mm*36mm*16mm
Weight	25g
Connectivity	USB 2.0
Temperature Range	-30°C to +60°C
Humidity Range	5% to 85% RH
Temperature Accuracy	±0.5 °C (-20°C to +40°C); ±1.0°C (other range)
Humidity Accuracy	±3% (10% to 85%RH)
Data Storage Capacity	32,000 readings
Start Delay	30 mins (configurable)
Start Mode	Push-To-Start
Recording Interval	10 mins (configurable)
Protection Grade	IP54
Report Generation	Automatic PDF and CSV report generation
Time Zone	UTC +0:00 (Default)
Battery Shelf Life	1 year (replaceable)

ULogm2s | Multiple-Use Temperature and Humidity Data Logger

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Auto PDF/CSV Report
Automatically generate encrypted PDF/CSV format report, no software required to access data file.

Intuitive LCD Indication
LCD presents all key information including recording statistics, alarm and running status and remaining battery life.

Technical Specification	
Dimensions	84mm*42mm*9.5mm
Weight	23g
Connectivity	USB 2.0
Temperature Range	-30°C to +70°C
Humidity Range	0% to 100% RH
Temperature Accuracy	±0.5 °C (-20°C to +40°C); ±1.0°C (other range)
Humidity Accuracy	±2% (10% to 85%RH)
Data Storage Capacity	33,792 readings
Start Delay	30 mins (configurable)
Start Mode	Push-To-Start
Recording Interval	10 mins (configurable)
Protection Grade	IP66
Report Generation	Automatic PDF and CSV report generation
Time Zone	UTC +0:00 (Default)
Battery Shelf Life	1 year (replaceable)
Battery Type	CR2450

M2H | Multiple-Use Temperature and Humidity Data Logger

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Auto PDF/CSV Report
Automatically generate encrypted PDF/CSV format report, no software required to access data file.

Intuitive LCD Indication
LCD presents all key information including recording statistics, alarm and running status and remaining battery life.

Technical Specification	
Dimensions	112mm*47mm*14mm
Weight	50g
Connectivity	USB 2.0
Temperature Range	-30°C to +70°C
Humidity Range	5% to 95% RH
Temperature Accuracy	±0.5 °C (-20°C to +40°C); ±1.0°C (other range)
Humidity Accuracy	±3% (20% to 80%RH)
Data Storage Capacity	28,800 readings
Start Delay	30 mins (configurable)
Start Mode	Push-To-Start
Recording Interval	10 mins (configurable)
Protection Grade	IP64
Report Generation	Automatic PDF and CSV report generation
Time Zone	UTC +0:00 (Default)
Battery Shelf Life	1 year (replaceable)
Battery Type	CR2450

TempU04 | Multiple-Use Temperature Data Logger

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Auto PDF/CSV Report
Automatically generate encrypted PDF/CSV format report, no software required to access data file.

Intuitive LCD Indication
LCD presents all key information including recording statistics, alarm and running status and remaining battery life.

Technical Specification	
Dimensions	84mm*36mm*14mm
Weight	23g
Connectivity	USB 2.0
Temperature Range	-30°C to +60°C
Temperature Accuracy	±0.5°C (-20°C~+40°C); ±1.0°C (other range)
Data Storage Capacity	32,000 readings
Start Delay	30 mins
Start Mode	Push-To-Start or Start Delay
Recording Interval	Programmable (10sec to 18 hours) - Default is 10 mins
Start Delay	Configured by User (0 - 254 mins)
Protection Grade	IP54
Report Generation	Automatic PDF/CSV report generation
Time Zone	UTC +0:00 (Default)
Battery Shelf Life	1 Year (replaceable)

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Real-Time Data Loggers

TT Series | Real-Time Temperature and Humidity Data Loggers

Built-in Vibration Monitoring
Support change trend warning, vibration monitoring

Dual Temperature Sensors
Built-in sensor and external probe for wider temperature measuring range

High Accuracy Position System
Support LBS, Wi-Fi, GPS positioning and full trajectory dynamic playback

Automatic Data Generation
PDF report can be directly extracted via USB port connection or downloaded via TZONE cloud platform remotely

Intuitive LCD Indication
LCD presents all key information including signal status, alarm and running status, as well as remaining battery status

Features

- **Supports large capacity internal storage and data transfer after network connection.**
- **No Data loss.**
- **In line with FDA standards data statistics and analysis reports, location and trajectory, mobile applications procedures, etc. to provide complete quality traceability and systematic records.**
- **Real-Time temperature, humidity, vibration, light, position information to prevent and deal with the risk of temperature fluctuations, low light detection, opening and closing doors, switching box events.**
- **Real-Time alarm.**
- **Re-Chargeable, can be used multiple times.**

TT Series | Real-Time Temperature and Humidity Data Loggers

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Model Number	TT18-4G-S	TT18-4G-M	TT19	TT19EX
Standby Time	60 Days	100 Days (one charge)	60 Days (one charge)	
Transmitting Interval	15 mins	30 mins	60 mins	
Usage Type	Single-Use		Multiple-Use	
Memory Capacity	20,000 readings		17,000 readings	
Inner Lithium Battery	Built-in 3.7V/3000mAh Lithium Battery		Built-in 3.7V/4000mAh Lithium Battery	
Transmission Mode	4G/2G	CAT-M1/NB-IOT/GSM	4G/2G	
Other Sensors	Light Sensor		Light and Vibration Sensors	
Location Type	LBS base station positiong		LBS, WiFi, GPS	
Temperature Range	-20°C to +60°C		Built-in: -20°C to +60°C	Built-in: -20°C to +60°C Probe: -80°C to +120°C
Dimensions	90mm*64mm*27mm		100mm*66mm*29mm	

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Dry Ice Data Loggers

TempU06L100 | BLE USB Low Temperature Data Logger (Dry Ice)

Built-in USB Connector
Enables quick connection with PC anytime and anywhere, no cable and reader required to download the data.

Bluetooth Access
Access, control and downloaded data logger outside of package or vehicle through Bluetooth Low Energy (BLE) connection

Automatic PDF Report with Embedded Raw Data
Automatically generated encrypted PDF format report, no software required to access the data file. PDF report includes recording summaries, statistics, alarm information, graph and optional tabular data. Embedded raw data allows further data processing via 3rd party system.

Flight Mode
Logger keeps recording with Bluetooth wireless turned off under Flight Mode, and user could awake logger up from flight mode remotely using Temp. Logger App on a smart device.

Intuitive LCD Indication
LCD presents all key information including signal status, alarm and running status, as well as remaining battery status

Temp. Logger App

- **Plug-in USB For computer configuration software and export data.**
- **Send exported files to partners through email and 3rd party App.**
- **Search, connect, control and download Bluetooth data loggers.**
- **Present data in powerful graph and detailed statistics views.**
- **Available on both iOS and Android.**
- **Export data files as PDF and excel formats.**

Features

- **Bluetooth and USB connection.**
- **Large LCD screen with powerful indicators.**
- **External temperature probe for low temperature conditions.**
- **Flight Mode for air transport.**
- **FDA 21 CFR Part 11, CE, EN12830, RoHS, NIST traceable calibration.**
- **No need for any software to extract the PDF and CSV files.**

TempU06L100 | BLE USB Low Temperature Data Logger (Dry Ice)

Technical Specification	
Battery Shelf Life	1 Year
Dimensions	115mm*50mm*20mm
Weight	120g
Connectivity	USB 2.0 and Bluetooth 4.2
Temperature Range	-100°C to +80°C
Temperature Accuracy	±0.5°C
Temperature Resolution	0.1°C
Data Storage Capacity	32,000 readings
Start Mode	Push-To-Start or Timing Start
Recording Interval	Programmable (10sec to 18 hours) - Default is 10 mins
Alarm Range	Configured by User - Default is <2°C or >8°C
Start Delay	Configured by User (0 - 254 mins)
Report Generation	Automatic PDF/CSV report generation
Software	Temp. Logger App Temp (RH) Management Software (For Windows, 21CFR 11 compliant)
Protection Grade	IP65

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Bluetooth Data Loggers

BT Series | Bluetooth Temperature and Humidity Data Loggers

Bluetooth Access
Access, control and downloaded data logger outside of package or vehicle through Bluetooth Low Energy (BLE) connection

Automatic PDF Report with Embedded Raw Data
PDF report can be directly extracted via USB port connection or downloaded via TZONE cloud platform remotely

Intuitive LCD Indication
LCD presents all key information including signal status, alarm and running status, as well as remaining battery status

Features

- **Bluetooth 4.1 connection.**
- **High accuracy and stability.**
- **Long distance wireless transfer.**
- **LED light indicating for different statuses.**
- **History report can be sent to an external email.**
- **Real-time temperature and humidity.**
- **Built-in highly sensitive temperature and humidity sensors.**
- **It can store up to 12,000 readings.**

BT Series | Bluetooth Temperature and Humidity Data Loggers

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Model Number	BT04B	BT04	BT05B	BT05
Dimensions	50mm*50mm*16mm		66mm*48mm*10mm	
Weight	30g		35g	25g
Signal Transmission Frequency	2.400 - 2.4835GHz		2.400 - 2.4835GHz	
Protocol Standard	Bluetooth 4.1		Bluetooth 4.1	
Modulation Mode	GFSK		GFSK	
Send Interval	2 seconds (adjustable)		10 seconds (adjustable)	2 seconds (adjustable)
Built-In Battery	Panasonic CR2450, 620mAH / 3V		Panasonic CR2450, 620mAH / 3V	
Output Power	-4dBm (adjustable)		-4dBm (adjustable)	
Battery Life	1.5 years (depends on the mode of oepration, battery can be replaced)		1.5 years (depends on the mode of oepration, battery can be replaced)	
Communication Rate	1Mbps		1Mbps	
Transmission Distance	55 meters (adjustable)		55 meters (adjustable)	
Storage	Up to 12,000 readings (Temperature and Humidity Data)		Up to 12,000 readings (Temperature Data)	
Operating Temp. Range	-25°C to +60°C		-25°C to +60°C	
Temp. Accuracy	±0.3°C (0°C~+60°C); ±0.3~0.7°C (other range)		±0.5°C (-20°C~+40°C); ±1.0°C (other range)	
Humidity Range	0 to 85% RH			
Temp. Accuracy	±3%RH (20% ~ 80%); ±4%RH (others)			

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Wi-Fi Temperature Sensors

WF Series | Wi-Fi Temperature Sensors for Warehouses

Built-in WiFi Connector
Real-time data upload to cloud via WiFi network

Automatic PDF Report with Embedded Raw Data
PDF report can be directly extracted via USB port connection or downloaded via TZONE cloud platform remotely

Intuitive LCD Indication
LCD presents all key information including checking the current temperature, alarm status, battery status and WiFi status

Built-in Alarm
Equipped with Buzzer to alarm locally when the temperature exceeds the assigned limits

Built-in Battery
Built-in 4,000mAh / 3.6V battery, replaceable, long standby time

Configuration Software

- **Plug-in USB can be used to configure software & export data**
- **Send exported reports to partners via email**
- **Set the buzzer alarm temperature limit**
- **Export data files in PDF formats**

Features

- **Sensitive temperature prove with high precision**
- **Built-in 4000mAh / 3.6V battery which is replaceable**
- **Real-time temperature reporting via WiFi**
- **20,000 temperature recording into device memory, and unlimited recording storage on the cloud platform**
- **Configurable alarm threshold, uploading interval and temperature unit**
- **Easily generate PDF report via USB port**
- **Equipped with LCD display screen, easy to check current temperature, alarm status, battery status and WiFi status.**

WF502 | WiFi Temperature Sensor

Technical Specification	
Dimensions	106mm*57mm*33mm
Weight	135g
Communication Mode	WiFi
WiFi Frequency Band	2.4GHz
WiFi Standard	802.11b
Sensor Temperature Range	-55°C to +125°C
Temperature Range	-30°C to +60°C
Temperature Accuracy	±0.3 °C
Temperature Resolution	0.1 °C
Data Storage Capacity	20,000 readings
Start Mode	Push-To-Start or Timing Start
Logging Interval	Defaulted at 15 minutes
Recording Interval	Defualted at 15 minutes
Alarm Range	User Configurable
Report Generation	Generate PDF report via USB port or via Cloud
Protection Grade	IP54
Battery	Built-in 4000mAh / 3.6V battery (replaceable)
Battery Shelf Life	240 days (15 minutes sending interval)

WF502B | WiFi Temperature & Humidity Sensor

Technical Specification	
Dimensions	106mm*57mm*33mm
Weight	135g
Communication Mode	WiFi
WiFi Frequency Band	2.4GHz
WiFi Standard	802.11b
Sensor Temperature Range	-55°C to +125°C
Temperature Range	-30°C to +60°C
Humidity Range	0% to 85% RH (non-condensing)
Temperature & Humidity Accuracy	±0.3°C and ±3% RH
Data Storage Capacity	20,000 readings
Start Mode	Push-To-Start or Timing Start
Logging Interval	Defaulted at 15 minutes
Recording Interval	Defualted at 15 minutes
Alarm Range	User Configurable
Report Generation	Generate PDF report via USB port or via Cloud
Protection Grade	IP54
Battery	Built-in 4000mAh / 3.6V battery (replaceable)
Battery Shelf Life	240 days (15 minutes sending interval)

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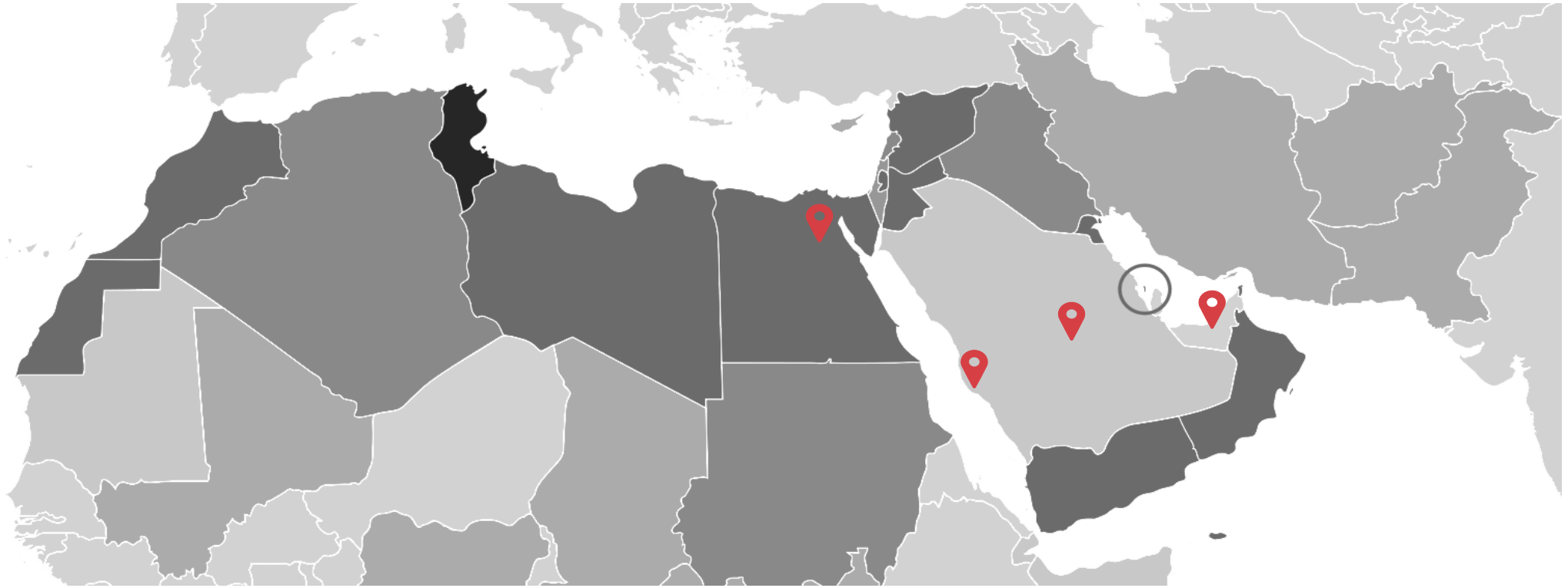
Our Presence

Our Presence and Market Reach



United Arab Emirates

DH General Trading HQ
Dubai

info@dhtme.com

+971 58 166 8844

Saudi Arabia

Fast Network Est. - Distributor
Jeddah

info@dhtme.com

+966 56 369 5566

Saudi Arabia

Fast Network Est. - Distributor
Riyadh

info@dhtme.com

+966 53 428 7862

Egypt

DH General Trading
Cairo

Galal@dhtme.com

+20 100 343 0000

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