Fabless Chip, Sensor and System Provider

DamoaTech Co.,Ltd

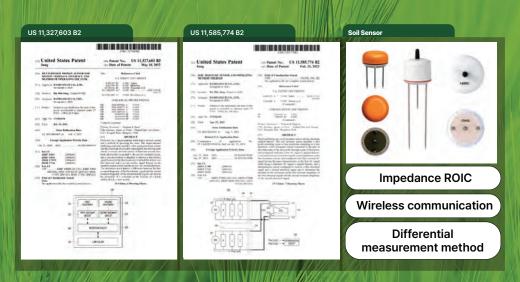






Fabless Chip, Sensor and System Provider

Damoatech's products are eco-friendly and make our world smarter, safer, healthier, and sustainable.







DamoaTech: Your Innovation Partner

We lead in semiconductor chips and sensors, driving smart agriculture and smart cities with our proprietary impedance signal processing ROIC. Our products bridge the natural world and humanity, promoting ecofriendly solutions for a smarter, safer, and healthier world.



DamoaTech'sTechnology DT-IMAO9: Impedance ROIC DamoaTech's DT-IMA series are ROIC for inductive and capacitive sensors. Capacitive sensors use a noncontact technology that measures impedance, a measure that impedes the flow of current when an AC signal is applied. In reality, it analyzes the external environment by interpreting the changes in frequency, amplitude, and phase that occur when passing through a specific circuit network. **Applications** Location Sensor / Nearness Sensor / Rotational Sensor / Gear Counting Sensor / Gear Movement Sensor / Compression, Elongation, and Warping Sensor, LBD (Live Body Detection) / Electrostatic Capacity Sensor / Inductive Sensor



DamoaTech's Products

- · Simplify the board with a one-chip solution
- · Minimize power consumption
- · Wireless communication
- · Use battery as power source
- · No need for separate communication or storage equipment
- · Low voltage enables battery use
- · Extend usage time with increased battery capacity
- · Supply history in Korea and worldwide
- · Easy installation and operation
- · Easy battery replacement and charging
- · Real-time technical support
- · Made in KOREA





communication



Real-time technical support



Patented technology

Product

: Smart Agriculture

Soil Sensor: DT-SMS01B/L









Soil Sensor Features : KC, FCC, CE certifications

Utilizes patented technology from Korea and abroad Check sensing data anytime, anywhere with smart devices



Reliability

- Using differential measurement method to Minimize error
- Measure differences between sensing and reference to filter environmental changes.



Wireless

- See real-time data
- No data logger or transmission equipment required



Battery Usage

- Ease to install & move
- Easy battery replacement
- Plug & Play



Durability

- Stainless steel probe
- Nylon 66+ glass fiber composite
- IP67 grade waterproof



BAT(3.6V) / DC 5V(USB)				
0.5W				
Wi-Fi 802.11b/g/n,BLE5.0				
2.4Ghz				
WEP/WPA/WPA2				
Soil Moisture: 0% ~ 60%(VWC)				
Soil Temperature : -20°C ~ 50°C				
1year				
-20°C~50°C				
ASA + SUS 304				



Product

: Smart Agriculture

Atmospheric Sensor DT-ATS03



► Temperature, humidity, CO₂ concentration, atmospheric pressure, light intensity

Specification

Input Voltage	BAT(3.6V) / DC 5V(USB)				
Power Consumption	0.5W				
Communication	Wi-Fi 802.11b/g/n, BLE5.0				
Frequency	2.4Ghz				
Wi-Fi Encryption	WEB/WPA/WPA2				
Measurement Parameter	CO ₂ : 400ppm ~ 4000ppm				
	Air temperature : -20°C ~ 60°C				
	Atmospheric humidity: 0%RH ~ 100% RH				
	Atmospheric pressure: 900hPa ~ 1100hPa				
	Light intensity: 300mW/m2 ~ 1600mW/m2				
Quality Warranty	1 year				
Operating Temperature Range	Temperature : -20°C ~ 70°C				
Material	ASA + SUS304				

Data Hub: DT-HUB01

Specification

Input Voltage	DC 12V(Solar Cell), AC 110 ~ 220V
Power Consumption	1W
Communication	Wi-Fi 802.11b/g/n,BLE5.0
Frequency	2.4Ghz
Wi-Fi Encryption	WEB/WPA/WPA2
Quality Warranty	1year
Operating Temperature Range	-40°C ~ 70°C
Material	ABS, PC





Product

: Smart Agriculture

Controller: DT-CON04



* Internal circuit of controller





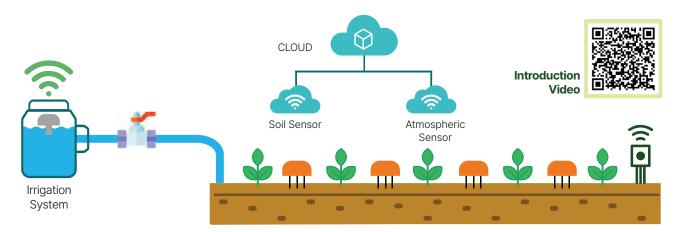


Specification

Input Voltage	AC 24V
Power Consumption	24W
Communication	Wi-Fi 802.11b/g/n, LTE
Frequency	2.4Ghz
Wi-Fi Encryption	WEB/WPA/WPA2
Number of Control Channels	4 Channel
Quality Warranty	1year
Operating Temperature Range	-40°C ~ 70°C
Material	ABS, PC

Precision Irrigation Control System

Experience DamoaTech's precision irrigation for efficient water management and eco-friendly farming. Optimize growing conditions, enhance crop yield, and cut cost.

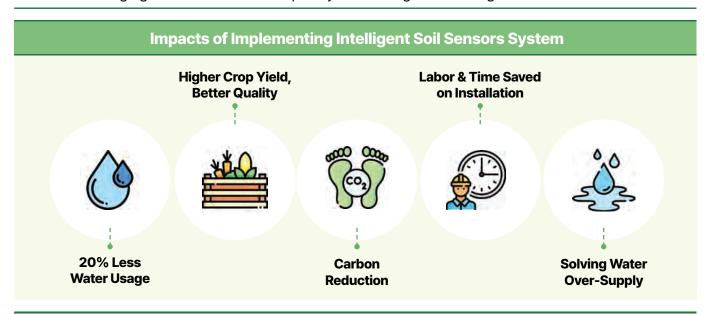


Monitoring and Control System:

Analysis of soil moisture, soil temperature, and weather conditions data

Q. What challenges is the customer facing

- ► Wastage of water for irrigation
- ▶ Challenging to Determine the Frequency and Timing for Watering



Q. Who Experiences These Issues?







Parks

Estrus/Parturition Prediction Sensor: DT-FMS02

- · Precise differentiation between the fertile and weaning periods
- · Enhanced accuracy achieved by measuring body moisture, activity level, body temperature and discharge status
- · Accurate notification of delivery status





*Actual Use Case

Estimated date of delivery



The cattle calving prediction has a ±14-day margin of error





Prevention of Calving Accidents

Specification

Input Voltage	DC 3.6V(Battery)				
Power Consumption	50mW ~ 500mW				
Communication	WIFI 802.11b/g/n BLE 5.0				
Frequency	2.4Ghz				
Wi-Fi Encryption	WEP/WPA/WPA2				
	Body temperature : -20°C ~ 50°C				
Measurement Parameter	Activity level				
	Air pressure				
	Light intensity				
	Body hydration level: 0 ~ 100 %				
Quality Warranty	1 year				
Operating Temperature Range	-40°C ~ 70°C				
Material	Bio-compatible polymer, SUS304				

· Breeding cattle



Intravaginal sensor

Birth Prediction: Monitoring for Several Days Accurate birth prediction reduces labor and prevents birth incidents

Experience Innovation in Agriculture with DamoaTech



Damoatech Empowers Smart Agriculture with a Variety of Sensor Products, Enabling Intelligent Sensing, Monitoring, Control, and Advanced Analysis and Planning.





Make it easy to check and manage the sensing data from DamoaTech's various sensors through the FarmCLO App. Anywhere, anytime, you can optimize your farm with accessible real-time information









DamoaTech

Farm smarter with Damoatech's smart sensors.

Damoatech provides smart sensors and smart solutions.

Use our systems for more precise farming.

Reduce labor and water consumption.

Why DamoaTech?

Company	Nation	System	Control	Component	Wireless	Distributed Data Processing	PC Processing	Note
O*Farm	USA	Embedded	X	Х	0	0	X (Cloud)	3G-based monitoring
F****tsu, A**SI	Japan	Embedded	0	0	0	0	X (Cloud)	distributed network
P**VA	Netherlands	PLC	0	Х	Х	Х	O (Cloud)	
Smart F**m	NewZealand	Embedded	0	Х	0	0	X (Cloud)	
DamoaTech	Korea	Embedded	0	0	0	0	X (Cloud)	Wi-Fi/BLE/LTE based monitoring and control

Smart City



School



Garden



Orchard



Golf course, Playground



Park



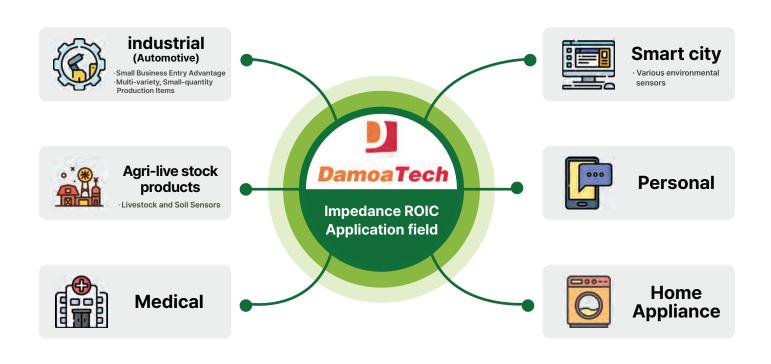
Rooftop garden

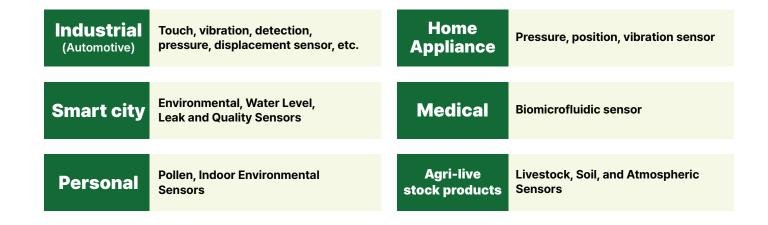
Smart lawn management system

Advanced Grass Management with Smart Sensors and Wireless Networks









Installation Example



















(주) 다모아텍 DamoaTech Co.,Ltd

Contact

Technical and Sales Inquiry

Tel. +82-70-4369-0904 **E-mail.** info@damoatech.com

B-604,723, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea 13511

- If you have any further inquiries related to the product, please don't hesitate to contact us anytime
- The brochure's information may change due to product updates without prior notice