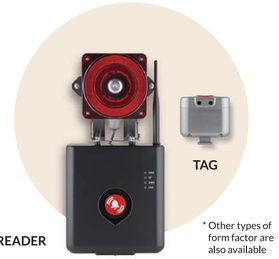
REAL TIME
LOCATING SYSTEM



* Other types of form factor are also available

LOCATION READER		LOCATION TAG	
Size	410 x 200 x 130 (mm)	**Size**	53 x 52 x 20 (mm)
Weight	1.5kg (include siren)	**Weight**	50g (include case, battery)
Power	12V, 2.5A (PoE supported)	**Power**	850mAh (Lithium)
Emergency Battery	Continuous operation for 1 hour after power cut	**Running Time**	Over 10 months
		Low Power	Sleep when idle time
Frequency	2.4GHz	**Frequency**	2.4GHz
Wireless Communication	Over 150m (line-of-sight)	**Wireless Communication**	Over 150m (line-of-sight)
RF	IEEE802.15.4 standard, RFID supported	**RF**	IEEE802.15.4 standard, RFID supported
Certification	IP65	**Certification**	IP65
Operational Condition	Temperature -20 ~ 70℃ Humidity 0 ~ 90%	**Operational Condition**	Temperature -20 ~ 60℃ Humidity 0 ~ 90%
Others	125kHz LF (Low Frequency) transmitter included	**Others**	125kHz LF (Low Frequency) receiver included 13.56MHz RFID included

- Alarm button for fire, gas leak and injured worker
- Operation using battery in case of power outage
- Connector to external devices (emergency lighting and siren)
- Selective operation of external devices (emergency lighting can be operated alone)
- Diverse sensors can be integrated and the environment can be analyzed
- Self-test, automatic system recovery

- Designed as small and wearable device
  Can be attached to helmet, nametag or wrist, so can be used conveniently during work
- Location of an injured worker can be tracked, and the injured worker can be monitored whether transferred safely
- In case of emergency, the location and the evacuation status of a worker can be monitored, and rapid response and rescue is possible

Tiny OS
by UC Berkeley

“ WE KNOW WHAT YOU WANT ”

We have a variety of advanced solutions for low-power communication, wireline and wireless network system, CCTV control systems, and gate automation systems that apply to ports, shipyards, and offshore plants.

Development of Smart Disaster Detection and Response SW for Safety of Marine Plant Workers

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WHICH ON

SAFETY MANAGEMENT TECHNOLOGY

OH-KYUNG COMTECH

WORKER SAFETY MANAGEMENT SYSTEM

Real Time Locating System (RTLS) using wireless communication between a tag and a reader. A small low-power tag is attached to a person or an object of interest. A reader is installed in the area of interest, and works as a reference of location.

Safety System Integration Technology

Low-power wearable tag operates over 10 months.
Automatic detection, diagnosis and recovery for many system problems.
Battery backup power enables uninterrupted operation even in the case of power outage.
System dualization provides real-time backup and reliability.

EASY EXTENSION

Easily extensible with diverse environment sensors, emergency lighting / siren, CCTV, and applicable to diverse area

RELIABLE OPERATION

With redundant storage, system dualization, and battery backup power, data integrity and availability is provided even in case of power outage or failure of one disk or one server

ALARM FOR WORKER

By pressing a button of a tag, a worker can trigger an alarm in case of injury or accident. Control center can expand alarm to the area

ALARM FOR SPECIFIC AREA

By pressing a button of a reader, an alarm can be trigger in case of fire or gas leak Emergency lighting and siren of the reader notify the alarm

ALARM FOR EVERY AREA

When the hazard enforces evacuation in the entire workplace, control center triggers an alarm in every reader

ACCURATE LOCALIZATION

Filtering and compensating algorithms enable accurate real time localization of hundreds of tags at the same time even in crowded indoor environment

STABLE COMMUNICATION

Optimization over IEEE802.15.4 standard protocol enables stable communication despite noise, interference, and possible data corruption

DIAGNOSIS AND RECOVERY

For many system problems, the system detects, diagnoses, and recovers automatically

ACCESS CONTROL

Depending on completion of safety education and work permit, access to a workplace or a specific restricted area can be controlled

COLLISION AVOIDANCE

To avoid collision of a heavy equipment with a worker during operation, an alarm is triggered if a worker is nearby a heavy equipment

BATTERY LIFETIME OF TAG

10 MONTHS

State-of-the-art low-power technology provides 10-month lifetime, and makes the system applicable to diverse industries.

SIMULTANEOUS OPERATION

11,000 TAGS

Verified stable and efficient operation in harsh industrial environment with 11,000 tags and 400 readers.