SmartLab Mate AI

Real-time Reagent Safety Management System

A patented laboratory integrated management system, with built-in AIoT EHS Platform monitors the operation status of products linked to the SmartLab Mate AI (a control tower that controls the AIoT-based devices).

Model No

· GSCAI1S0(scale non-linked type)

· GSCAI1SB(scale-linked)
   Compatible Scales: METTLER TOLEDO, OHAUS and A&D

Optional-Onsite Hosted Server

· GPSAI110 (Institutional) : upto 10 laboratories

· GPSAI104(Laboratory) : upto 4 laboratories

Features and Functions

AIoT Built-in Equipment and Superior Integration

· AIoT Reagents can be brought in and out in conjunction with the reagent cabinet.

· AIoT Reagent cabinet door open feature

· AIoT Control of Harmful Gases (automatically controlled when taking out and bringing in reagents)

· AIoT Sensor System Monitors in Real-time concentration levels from various sensors

· AIoT Fume Hood Sash Height Adjuster (automatically controlled when taking out and bringing in reagents)

· LSPMS allows for managing consumables and other manufactured equipment

Superior User Convenience

· Facial Recognition Login

· Immediate MSDS lookup when scanning reagents out (choose from text-to-speech or MSDS lookup

· Record reagent usage and remaining amount by connecting to a compatible scale (scale-linked type)
   - LSPMS allows for monitoring each user activity which is important fo research health and safety monitoring program

· Reagent tracking function
   - Who, what, where, when, why, and how

SmartLab Sensor AI

AIoT Real-time air quality and harmful gas monitoring device

AIoT EHS Platform, linked with the AIoT-based toxic gas purifiers, allows for automatic control, when the concentration of harmful gases in the laboratory exceeds the permissible exposure limits. Samart Lab Sensor AI is installed with temperature, humidity, VOCs, formaldehyde, carbon dioxide, nitrogen oxides, ammonia, carbon monoxide, fine dust (PM 10) and ultrafine dust (PM2.5) sensors.

Model No

· GSSAI1S09

- Sensor Selections: Temperature, humidity, volatile organic compounds, formaldehyde, carbon dioxide, nitrogen oxides, ammonia, carbon monoxide, fine dust (PM 10), ultra-fine dust (PM 2.5)
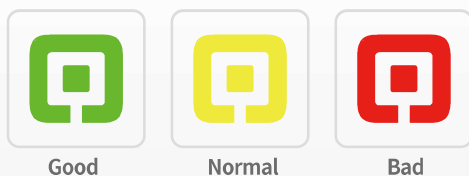
Optional-Onsite Hosted Server

· GPSAI110 (Institutional) : upto 10 laboratories

· GPSAI104(Laboratory) : upto 4 laboratories

Features and Functions

AIoT Built-in Equipment and Superior Integration

· When the concentration of a specific sensor increases above the nominal value, a warning message is automatically sent to the manager and the toxic gas purifier is automatically controlled: the nominal value is set according to the institution permissible standard

· LSPMS allows for indoor air quality via graph or downloadable excel file

· SmartLab Mate allows for real-time toxic gas concentration monitoring

· Function to check the concentration of toxic gases on the LCD screen when linked with primarily used AIoT reagent cabinet

Good   Normal   Bad

Status Color changes based on concentration

Air Quality Management Monitor (optional)