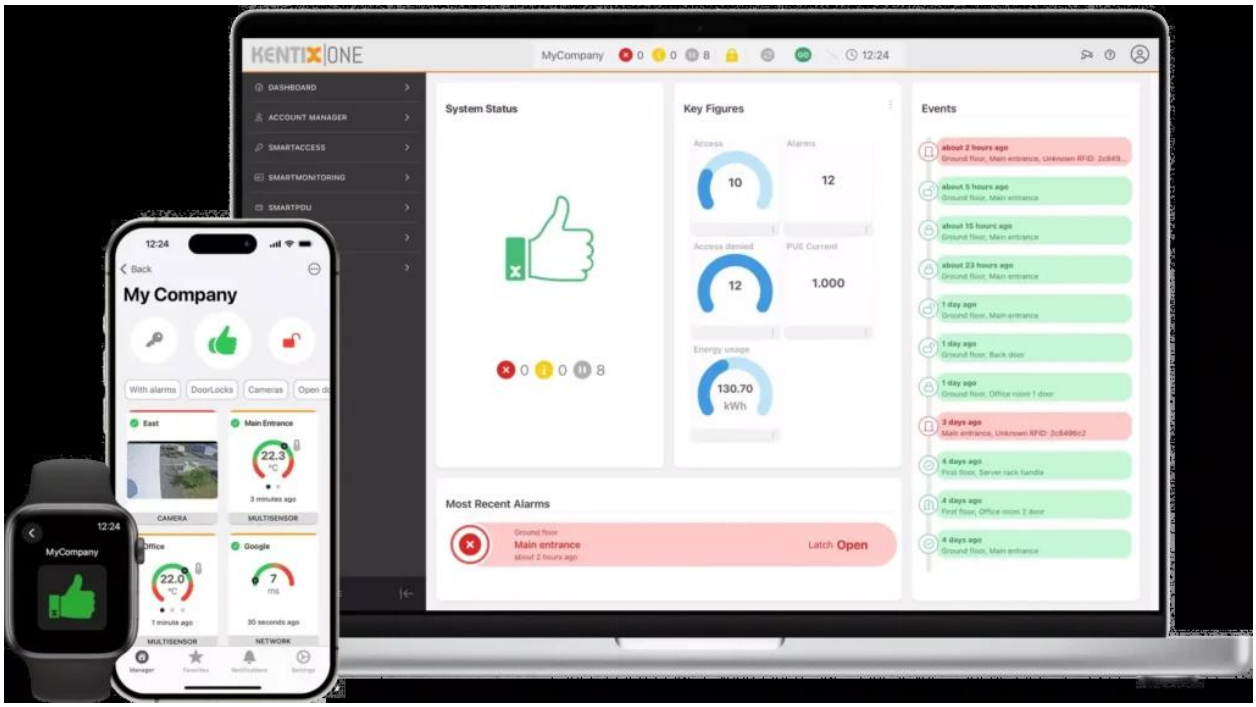
KentixONE Software – DATA SHEET



User Interface (GUI)

Configuration and operation

- Integrated web server (HTTPS, port: 443) supports all common browsers
- KentixONE app for smartphone (iOS, Android) and smartwatch (iOS), part of KentixONE-GO
- Dashboard views as EasyView (overview) and DetailView (detail and navigation view)
- Measured values, status values and operation as information tiles or table views
- Extensive filter functions for views via predefined and custom filters
- Any navigation depth according to project structure (buildings, plants, floors, functions, etc.)
- Intelligent search over entire system with logical and mathematical operators
- Teach-in and assignment of physical and virtual devices directly in the dashboard
- Multi-client capability for separation of company and functional areas
- Authorization management with freely configurable user groups
- Freely configurable visualization elements for sensors-actuators
- Graphical display of measured value curves

General functions

Functions available in all modules

- Languages: English, French, German, Italian, Spanish, Portuguese, Japanese

- Measured values for temperature in Celcius (°C) and Fahrenheit (°F)
- System time with time zone, two NTP servers configurable
- Automatic backup to SD card, SMB network drive
- Logbook for all system-specific events with export function
- Update function for manual updates or online updates (via KentixONE-GO software maintenance)
- E-mail messages via SMTP (SSL/TLS) or via KentixONE-GO service
- Push messages to KentixONE app via KentixONE-GO service
- SMS messages with devices like AlarmManager with built-in LTE/4G modem
- Inheritance of configuration settings (thresholds, parameters) via the project structure
- Maintenance mode with time control of the maintenance period and reclosing

Security and data protection

General Security settings

- Web server (HTTPS), own SSL certificate usable
- User based API Key
- IEEE 802.1X port authentication for all devices with Ethernet
- AES128/256 encryption for radio and bus connections
- Regular security updates via KentixONE-GO service
- Communication and sabotage monitoring depending on sensor, product
- Own RFID MIFARE® DESfire® security applications can be used
- Double authentication can be activated, PIN lengths adjustable

SmartAccess – Access control

Management of access authorizations

- Extensive real-time access management based on access and time profiles
- Own real-time access logbook with overview of all bookings with video history
- Recording of short video sequences of the access to each booking
- Time access profiles freely configurable
- Extensive filter functions for users to search by authorization and profiles
- Configurable storage depth of access history according to data protection guidelines
- Display and monitoring of door status and door hit time
- Remote opening with video preview
- Adjustable relay and startup times
- Time-controlled door opening or engagement of door knobs and door handles
- Assignment to alarm groups with automatic arm/disarm switching
- Battery level indication and monitoring for radio battery components
- Monthly statistics with bookings and misbookings
- Use of the KentixONE app as a mobile access medium, use of NFC tags.
- Sending time-limited access authorizations to smartphones
- Management of emergency access for battery-powered components

SmartMonitoring – environment monitoring

Environmental monitoring with intrusion detection, early fire detection, external fault messages and network monitoring

- Extensive alarm, warning and status management of measured values
- Dedicated event log for alarms warnings and status messages with video history
- Direct alarm warning display with quick navigation to the information point
- Configuration and visualization of all Kentix multisensors
- Extensive parameter settings for sensors and actuators
- Visualization of the 4-factor early fire detection system
- Display of thermal images, configuration of exclusion areas in the thermal image
- Configuration of any number of alarm groups
- Very granular configuration of alarm parameters (time, delays, signaling, etc.)
- Arm-disarm control over the project structure and levels
- Integration and query of measured values via SNMP V2/3
- Integrated network availability monitoring (ICMP, port check)

SmartVideo – video surveillance

Live video and video recording integration

- Display of live video streams in the browser
- Display of live video streams in the smartphone app (KentixONE-GO service)
- Insertion of controls in the video image for door opening
- Assignment of video cameras to doors for access documentation with pre-event
- Assignment of cameras to alarm groups for video documentation of alarms
- Configuration of the resolution according to the video camera

SmartPDU – Power distribution and measurement

Power management via rack PDU or external metering devices

- Visualization of current and energy readings from Kentix SmartPDU
- Free configuration of thresholds for alarm warning via a variety of current parameters
- Switching function for switchable SmartPDU with synchronization of A/B ports, reset function with time control
- Integration of external measuring devices (meters) with Modbus TCP/RTU
- Automatic calculation of PUE (Power Usage Effectiveness)
- Graphical representation of load curves
- Billing of consumption values in definable energy reports
- Management of complete server racks as a unit with load monitoring of the A/B supply

System networking

Decentralized system structure of hardware components based on main devices and auxiliary devices (satellites)

- Creation of arbitrarily large and branched device networks
- Management structure based on “main devices” and “satellites
- Automatic management as soon as device is assigned as Main or Satellite
- Main devices can be hardware appliances or virtual Docker containers
- Decentralized data storage to intercept network failures
- Central software management and deployment

Interfaces

Software and hardware interfaces for integration of or into third-party systems

- LDAP/LDAPS, directory access protocol for querying and modifying information from distributed directory services. Secured connection via TLS (LDAPS, Port: 636)
- SMB, file and folder access for backup management
- Restful Application Programming Interface (API) for third-party integration
- Web hooks, event communication to third-party servers (JSON, XML, CSV)
- SNMP-V2/3 (Simple Network Management Protocol), GET/SET (Port:161), TRAP (Port:162)
- Modbus RTU/ETH
- VDS2465

KentixONE App

Paid add-on service with app remote control, online updates and technical support

- Remote access and control via KentixONE app for Apple and Android smartphones and smartwatches
- Functions: Measured values, states, arming/disarming, live video, door control, authorization control, logbooks, etc.
- Integrated sending of push and e-mail messages
- Extended range of functions for KentixONE (user profiles, VDS2465, etc.), for details see KentixONE service description.
- Availability check (live check) through KentixONE cloud service
- Online software updates: security updates, function updates, app updates

Communication or firewall settings in the network

In most networks, no special approvals or port activations are required to use KentixONE. KentixONE Cloud uses the same communication and security procedures as modern IoT and web applications and does not require insecure activation of IP ports from outside (inbound) into the network.

However, if firewall rules are required to communicate with the KentixONE-GO servers from the network (outbound) or to restrict communication, the following information may be helpful:

Communication port of the KentixONE server: :

- TCP 443 (https)

DNS names of the KentixONE servers:

- cloud.kentixone.com
- auth.cloud.kentixone.com
- gateway.cloud.kentixone.com