Beeheve 1 M

Access control system

STVF.424252.023

PURPOSE

Beeheve 1 M mobile access control system is designed to control access, as well as to determine and control the location of personnel assigned to the ship and persons temporarily staying onboard.

FIELDS OF APPLICATION

- as an auxiliary fast-deployable access control system on vessels of the Russian Navy

VERSION

- set's prefabricated design ensures its mobility and compactness in assembled state
- set consists of a monitoring post and a linear part
- monitoring post is a mobile control unit consisting of a rugged notebook with installed Beeheve 1 M software and a proximity card reader for reception, processing, storage and real-time display of information received from the linear part equipment.
- the linear part includes mobile readers to identify personnel via proximity cards and sensors to detect attempts of several persons' passing via single proximity card
- set includes 4 types of contactless cards with different markings and colors allocated for different personnel categories, as well as for those staying on board as guests.
- the rugged special case and backpack set are used for packing and transporting the set components
- the set operates with Beeheve 1 M software

FEATURES

- reading data from proximity cards and displaying the received information on the control unit monitor
- passage time control and detecting unauthorized passage attempts of several persons via single proximity card
- database forming for storing information on personnel and visiting guests
- optional manual entering data and comments on any serving military personnel
- organizing wireless data synchronization between mobile readers and mobile control unit
- organizing wireless data synchronization between several mobile readers with direct interaction between them
- synchronizing mobile control unit with Beeheve 1 M. Pass Bureau
- monitoring status of components and charging of all set's batteries

PECULIARITIES

- rapid system deployment
- system compactness in assembled state
- option to locate personnel both onboard and offboard during parking in ports

SCOPE OF SUPPLY

Name	Quantity
✓ Mobile reader STVF.425664.003	*
✓ Mobile control unit Beeheve 1 M STVF.426484.044	1 pc.
✓ Access point STVF.425730.001	1 pc.
✓ STS-104B Sensor STVF.421878.006	*
✓ Contactless card-1 STVF.431295.114	70 pcs.
✓ Contactless card-2 STVF.431295.115	150 pcs.
✓ Contactless card-3 STVF.431295.116	250 pcs.
✓ Contactless card STVF.431295.117	30 pcs.
✓ Spare part set-O STVF.425973.007	1 set
✓ Backpack set STVF.305143.005	1 set
✓ Transportation case STVF.301172.020	1 pc.
✓ Beeheve 1 M. Pass Bureau STVF.426484.061	**
✓ Packaging	1 pc.
✓ Operating guidelines	1 copy
✓ Formulary	1 copy
* The number of parts of the system marked with "*" is specified in the supply contract.	
** Set components marked with "**" are supplied under a separate contract.	
Operating guidelines available at: http://stilsoft.ru	

DESCRIPTION OF SYSTEM PARTS

- Beeheve 1 M mobile control unit enables organizing an information base for storing data on personnel, provides location detection and control of personnel and people visiting the ship as guests, as well as reports forming and storing.
- Mobile readers are designed to scan data from contactless cards, form a reports on shipboard personnel location, storing and transmitting this data via radio channel both to another mobile readers and to the control unit.

- The set includes four types of contactless cards for dividing access rights. Three of them, different in color and serial number, are designed for identifying and locating personnel. 4th type cards are programmable and enable location monitoring people visiting the ship as guests.
- STS-104B sensors enable control of personnel passage to the ship, detection of unauthorized passage attempts, forming corresponding notifications and their transmitting to mobile readers via wireless communication.
- The access point facilitates wireless data transmission, including non-line of sight conditions, further increasing the distance between the mobile reader and the control unit.
- Beeheve 1 M. Pass Bureau is a stationary automated workstation with installed Beeheve 1 M software allowing arrangement of information base, personnel data storage, creating new and deactivating old proximity cards, forming and storing reports.
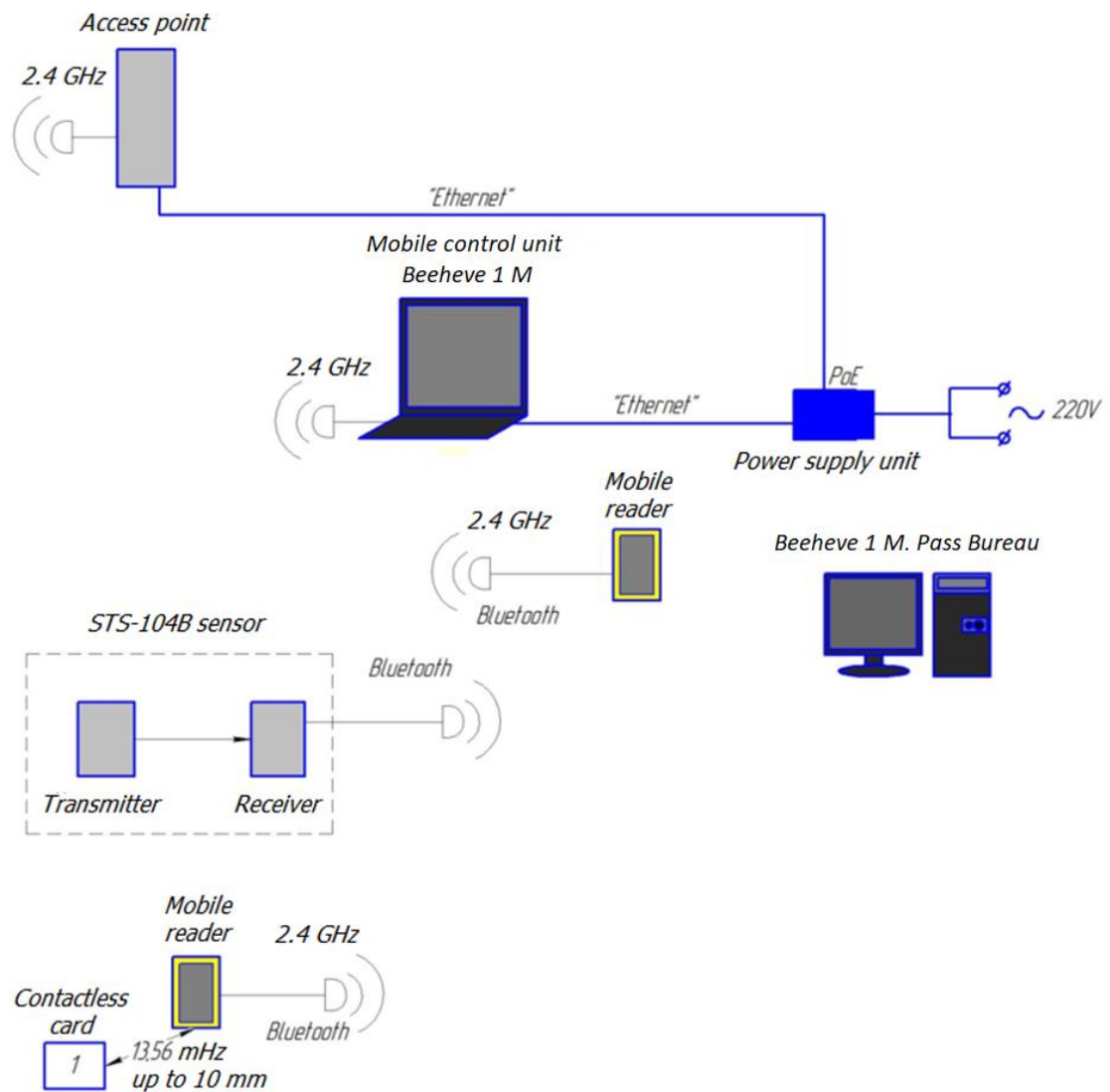
RELIABILITY AND WARRANTY

- Assigned operating period - 7 years.

TECHNICAL PARAMETERS

Parameter name	Quantity
Radio channel frequency, GHz	2,4
Maximum number of access subjects supported by the set, pcs.	3000
Automatic display of all detected people, their location and information about them	Yes
Information storing period on ACS events, days minimum	30
Product operating period, years	7
Temperature range of the set operation, °C*	from −20 to +50
DC power supply voltage, V	24±10%
AC power supply voltage, V	110/220±10%
Crew, people	2 persons
Average set deployment time, min	10
Set weight (without spare parts set), kg, maximum, kg	14
Installed software on the notebook	«Astra Linux Special Edition» OS, Beeheve 1 M software
*The operating temperature range of the POE 24V 24W power supply unit is -10°C to +60°C.	

SYSTEM SCHEMATICS

Access point

2.4 GHz

"Ethernet"

Mobile control unit Beeheve 1 M

2.4 GHz

"Ethernet"

PoE

220V

Power supply unit

Mobile reader

2.4 GHz

Bluetooth

Beeheve 1 M. Pass Bureau

STS-104B sensor

Bluetooth

Transmitter — Receiver

Mobile reader

2.4 GHz

Bluetooth

Contactless card

1 — 13,56 mHz up to 10 mm

* Supply of Beeheve 1 M. Pass Bureau is fulfilled under a separate contract