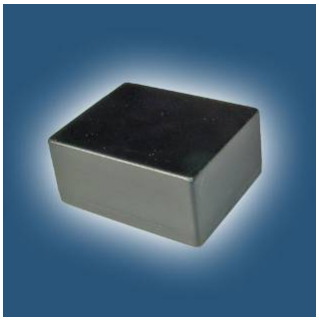
“DJV-COM” S.R.L.



The radiomodule J100-UC
Passport

DJVM.464002.001 PS

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Contents

1 The general data

The passport is intended for acquaintance of the attendants with the device, conditions of operation and maintenance service of radio-module J100-UC (further - the concentrator).

The passport contains technical data on a product and defines the order of its operation.

2 Purpose

The concentrator is intended for gathering and storage of the information from modules D100-FS on a radio channel and its transfers on following, higher level.

3 The basic functions

The account of a consumed resource: The concentrator collects below listed data from modules D100-FC, stores and passes them in the center:

- absolute indications of each counter as accumulated result;
- daily and hourly maps of consumption of a resource;
- daily maps of failures.

Reception/data transmission: the concentrator obtains data from modules D100-FC, using a radio channel. The initiator of communication with the concentrator is module D100-FC. The exchange of packages in a network is made each 25/50 seconds.

Transfer of registration data on a following level is carried out:

-on a radio channel

-on USB to the interface.

Calendar and RTC: the concentrator is supplied by calendar and real-time clock that allows:

- to accept and pass data according to the schedule.

Synchronization of clock: the concentrator on a regular basis synchronizes clock of modules D100-FS. Synchronization occurs during a session of communication with the module. In turn the concentrator receives an exact times from the center.

Non-volatile memory: all data obtained by the concentrator are stored in its non-volatile memory in the form of configured archive.

The module stores and passes in the Center of data on failures.

4 The device and the basic characteristics

The concentrator is established at an entrance of the served house in a plastic box by means of self-gumming polymeric tape or screws. Installation is made in (place) where the concentrator is protected from the vandalism.

The concentrator supply from the adapter of a direct current 6V/500 mA. At an emergency stopping delivery of an external feed transition, it powered from LiIon battery, which allows to work of the concentrator (all functions, except for a mode of data transmission in the Center) within 2 months.

Characteristics:

Characteristics of the concentrator correspond to table 1.

Table 1

The name	Value
Working frequencies of the RF-channel	433,63 MHz and 434,21 MHz
Output power of the RF-channel	<10 mW
Service life Li Ion batteries	6 years
The maximal distance between modules D100-FC, D100UC	450 m in line of sight and nearby 80 m with obstacle
The storage period of data in non-volatile memory makes	20 years
The volume of non-volatile memory	1680 packets
Frequency of data gathering from modules D100-FC	Once in day or by inquiry from the Center

5 Completeness

The complete set of delivery corresponds Table 2.

Table 2

The name	Quantity
Radiomodule J100-UC	1 pieces
LiIon battery ER14505 (M)	1 pieces
Passport	1 pieces
Seal set (under the order)	1 set
Retail container	1 pieces

Notes

1 External power unit 6V/500 mA, USB-GSM modem, USB cable are got independently or are delivered under the separate order.

2 Group shipment with use of many-placed transport container is supposed.

6 Resources, service life and storages

Average service life of the concentrator - not less than 20 years.

Average time between failures – not less than 114000 hours.

7 Manufacturer's guarantees

The manufacturer guarantees conformity of the concentrator to requirements of the engineering specifications at observance by the consumer of conditions of installation, operation, transportation and storage.

Warranty period of operation – 24 months from the date of commissioning.

Warranty period of storage – 6 months from the date of manufacturing the concentrator.

During the specified terms the manufacturer makes replacement of the concentrator.

The consumer has the right to the claim.

Claims are not accepted, the concentrator is removed from warranty service in case of presence of traces of mechanical damage.

8 Conditions of storage and transportation

Transportation of the concentrator to packing by all types of transport is supposed.

Conditions of transportation and storage: from a minus 20°C up to 60°C.

In premises for storage the maintenance of a dust, acids and alkalis, aggressive gases and other harmful impurity causing corrosion, should not exceed the maintenance of active agents for an atmosphere of type 1, according to GOST 15150.

9 Acceptance certificate

It is made in Moldova

The radiomodule J100-UC DJVM.464002.001

Factory number №:_____

Corresponds to the engineering specifications and it is recognized serviceable.

Date of manufacturing _____(Stamp)

_____/_____/

(A print of a brand, the personal signature, decoding of the signature of the official of the factory responsible for acceptance.)

Movement of a product at operation

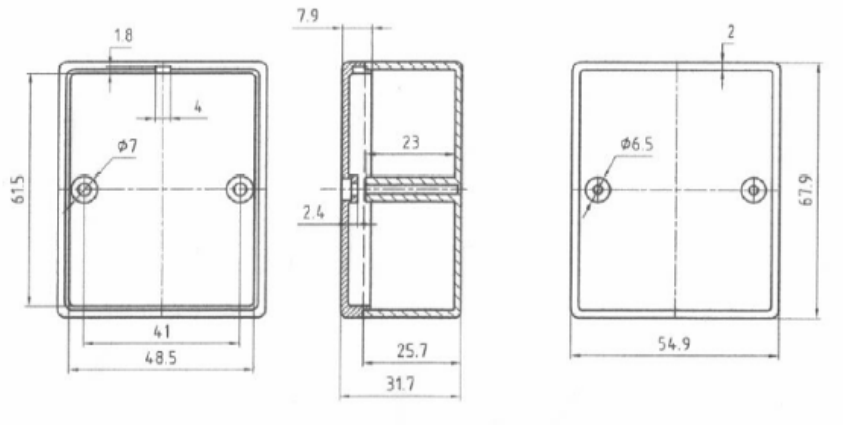
Installation date	Where it is established	Date of removal	The reason of removal

10 Conditions of operation

The concentrator is intended for continuous round-the-clock work in the closed premises. In operating conditions of application the concentrator is steady against influence of temperature of air from a minus 20°C up to +60°C and relative humidity of 90 % at temperature 25°C (without condensation of a moisture).

In case of external application, the concentrator should be established necessarily inside of the tight protective boxing protecting it from direct hit of a moisture and solar beams.

Length of a cable at data read-out through interface USB-not more than 2 meters.



The dimensional and adjusting sizes
radiomodule J100-UC

11 Installation lithium batteries

Concentrators are delivered with lithium battery. She is included in the complete set of delivery. Lithium battery is established in the concentrator before installation on object.

For installation or replacement lithium batteries on object, it is necessary to execute following actions:

To remove a seal of the serving enterprise (the self-collapsing sticky tape which is sealing up a joint between the case of the concentrator and the established surface).

To turn off 2 screws 2,5x10 covers of the case.

To take out the module from the case.

To insert the battery in the holder, observing the polarity specified on the printed-circuit-board.

To insert a payment of the module inside of the case.

To twirl screws.

To seal up the concentrator.