

# DIGITAL TWO-COORDINATE RECORDER «ERBY-7115»

«Erby-7115» is the two-channel (X, Y plus time t) electronic recording device for the wide application.

It transmits data, periodically received from two galvanically isolated input channels, in the computer, on the screen of which graphs of Y(X), X(Y), X(t), Y(t) are built and various parameters of the received signals can also be calculated with the help of special computer programs. The results, in addition to output to the screen, may be issued in the form of text files and printed protocols.

It provides the high accuracy and the wide-range of input signals. Device supports the management via the SCPI protocol (for example, from the program LabView).

**Area of application research:** scientific research and development, industry. The replacement of obsolete electromechanical tablet recorders, as well as import substitution.

## The characteristics of the device:

Parameter	Value
The number of measuring channels and registration	Two channels plus time
The minimum and maximum speed of registration	From 1 sample/hour up to 2000 samples/sec
The minimum and maximum registration time	From 1 sec up to more than 7 years*
Range of registered voltage in each channel	0,8 mV – 100 (350**) V
The choice of measurement sub-ranges	Automatic
Relative measurement error	From 0,3% (in the maximum of the sub-range) up to 2% (in the minimum of the sub-range)
Maximum instantaneous rate of change of the registered signal with the ensured accuracy	700 times (70000%) per second of the current value
The maximum frequency of the sine wave registered signal with the ensured accuracy	40 Hz
Accuracy of readout of time	0,01%
The interface to connect to the computer	RS-232 (or a USB through an adapter)
Dimensions	200 x 80 x 280 mm
Range of working temperatures	25±15 °C
Power supply voltage	220 V, 50 Hz

\* The limitation of only the PC software (up to 65000 hours and up to 2 billion measurements in a single file).

\*\* Optional on request

**The computer program** for Windows, attached to the device, provides full control of the device, including the displaying of the incoming data in real time and saving them to a file.

In addition, the program provides a number of additional functions, such as input data conversion by specified formulas, arbitrary zero offset, the viewing the data in different modes, some measuring instruments, the printing of data, the export of them to external programs, and others.

**Future options.** The production of models with a USB interface (with a maximum speed of registration of 10000 samples per second), as well as models with additional input for external start of registration is planned.

**At the request of the customer** the device and a computer program can be equipped with additional functions and modes.

More information, photos, description: <http://erbysar.com/7115.htm>

There **You can also download a demo version of the program.**

## MANUFACTURER: «ERBY» LLC

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*Letter of commendation  
on V Saratov Salon of  
inventions, innovations and  
investments (2010)*