

# SPIn Co., Ltd.

197022 Office 213, Instrumentalnaya street 6,  
St. Petersburg, , Russia

194156, Russia, St. Petersburg, Box 123

Phone/fax: +7(812) 234-96-56

E-mail: [spin\\_ltd@mail.ru](mailto:spin_ltd@mail.ru)

[HTTP://www.spin-inc.ru](http://www.spin-inc.ru)

SPIn Co., Ltd presents a new family of the compact electron paramagnetic resonance spectrometer EPR10-MINI M.

This homodine type multipurpose spectrometer is designed in small-size form-factor and has a low power consumption.

General technical characteristics is the following:

Operating frequency	9,0...9,6 GHz
Induction of magnetic field	0,05...0,70 T
Magnetic field sweep width	0,1 mT...0,45 T
Discrete of sweep width setting	0,1 mT
Discrete of field sweep	2 T
Sensitivity	$2 \times 10^{10}$ spin/ $10^{-4}$ T
Microwave output power	100 mW
Modulation frequency	100 kHz
Modulation width	0,01...1,00 T
Resonance conditions stability	$2^{-5}$
Maximum ampoule diameter	11 mm.
Electric power consumption	500 VA
Dimensions	700x500x400 mm
Weight	95 kg

Technical design of the EPR10-MINI M allows to make the measurements through the wide range of temperatures down to 77K using special thermostatic unit. Helium-temperature measurements also can be performed using special helium cryogenic equipment. Microwave cavity resonator has the mounting hole for the standard sample for providing the quantitative measurements. The spectrometer is present in The Registry of the Measuring Engines of Russia.

