

Energy measurement instrument of pulsed laser radiation (laser joulemeters)

Federal state unitary enterprise «VNII of optical and physical measurements» of Rosstandart in Russia is a leader in development and production of laser joulemeters in CIS countries. This is achieved through the use of the existing modern reference base in the field of laser radiometry, technology and pilot production equipment.



Laser joulemeters are **APPLIED IN** energy measurements in equipment containing pulsed lasers, for example: in medical devices and installations; in machines for laser processing of materials; in equipment for the evaporation of thin films; laser devices of photochemistry and spectroscopy; in weapon systems and military equipment, etc.

FUNCTIONAL USE OF PRODUCT / PURPOSE OF RENDERING OF SERVICE

Energy measurement of pulsed laser radiation.

Model	SIE
Registered in SI record	-
Operating wave length, mkm	1,064; 0,532
Pulse energy, J	$10^{-4}; 10^{-1}$
Pulse duration, s	$10^{-11}; 10^{-8}$
Pulse repetition frequency, Hz	2000
Beam diameter, mm	3:30; 30:60
Main error, %	$\pm 5; \pm 10$
Overall dimensions, mm	
Converter	FPE – 1; $\varnothing 86 \times 200$
Measuring unit	FEP – 2; $\varnothing 106 \times 240; 180 \times 110 \times 70$
Operating conditions, °C	5:35 -35:+40
Package weight, kg	12