

ING-10-20-150

Vacuum tube based
pulsed neutron generator
for logging equipment

→ THE GENERATOR DESIGN INCLUDES:

- neutron emission unit;
- power supply and control unit.

Both units are housed in the metal cylinders having the same diameter.

Electric power is supplied to the generators from 150 V DC source, and control is exercised with the help of the external pulse generator producing positive polarity rectangular pulses with the following parameters:

- pulse amplitude – 15 V;
- pulse width – 10-100 μ sec.

→ ING-10-20-150 TECHNICAL CHARACTERISTICS:

Neutron flux, neutron/sec	1×10^8
Neutron pulse width, μ sec	0.8
Frequency, Hz	1-20
Operating life time, h	100
Power consumption, W	not more than 30
Neutron emission unit dimensions:	
Diameter, mm	34
Length, mm	1300
Maximum operating temperature, $^{\circ}$ C	+150

Russian Federal Atomic Energy Agency



ALL-RUSSIA RESEARCH
INSTITUTE OF AUTOMATICS

For Express Mail:

22, ul. Sushchevskaya, Moscow, Russia

Phone: (499) 978-7803

Fax: (499) 978-0903

E-mail: vniiia@vniiia.ru

<http://www.vniiia.ru>