



# PS-8R

## High Resolution Seismic System

### The PS-8R High Resolution Seismic System

The PS-8R consists of a source and an 8-transducer receiver probe, which can be placed in the same or in different holes.

The PS-8R can be used for reflection and tomographic studies.

Both dry and water-filled holes, of arbitrary inclination can be used. The units clamp hydraulically to holes with diameters of 56 to 100 mm.

The source generates time-coded pulse sequences, which are summed to produce high dynamics broad-band records.

The PS-8R is intended for investigations of mine pillars, bridge piles and tunnel walls.

The PS-8R is capable of imaging single fractures at a distance of 10 to 20 m, by emitting and recording frequencies up to 60 kHz.



### Technical Data

<b>General</b>		<b>Peak Power:</b>	150 W	<b>Frequency Band:</b>	100 kHz
<b>Frequency:</b>	10 - 40 kHz	<b>Dimensions:</b>		<b>Dimensions:</b>	
<b>Depth:</b>	100 m	<b>length:</b>	1750 mm	<b>Length:</b>	1850 mm
<b>Temperature:</b>	5-45° C	<b>diameter:</b>	52 mm	<b>Diameter:</b>	52 mm
<b>Transmitter</b>		<b>mass:</b>	11.5 kg	<b>Mass:</b>	10.5 kg
<b>Programable</b>		<b>Receiver</b>			
<b>Sequence of</b>	5 pulse types,	<b>Number of</b>			
<b>Pulses:</b>	max. 99 pulses of	<b>Channels:</b>	8		
	each type	<b>Down-Hole</b>			
<b>Time interval</b>		<b>Preamplifier</b>			
<b>between</b>	0.1 - 0.35 s,	<b>Gain:</b>	Programmable		
<b>subsequent</b>	pseudo-random		in 8 steps		
<b>pulses:</b>					

