

# 1. Geo - Correlator - LOKAL 300 - Specifications

<b>central unit</b>	
correlation:	<ul style="list-style-type: none"> <li>× 32 bit correlation with 10 bit amplitude;</li> <li>× state of the art time domain technique;</li> <li>× resolution up to 5 cm</li> <li>× number of acquired points: up to 50,000</li> <li>× <b>FFT-function</b></li> <li>× <b>coherence</b></li> </ul>
display:	× LCD 64 x 240 pts resolution, illuminated
filter: ( <b>automatic filter search function</b> )	<ul style="list-style-type: none"> <li>× automatic / manual analogue filter for suppressing disturbing noises.</li> <li>× The measurement routine automatically determines the optimum filter setting</li> <li>× High - pass filter: 10 - 1,500 Hz in 100Hz steps = 16 filter</li> <li>× low-pass filter 30 - 4,800Hz in 300 Hz steps = 16 filter</li> <li><b>together 32 filters</b></li> </ul>
geophone function:	<ul style="list-style-type: none"> <li>× fully - applicable geophone with 8 band pass filters,</li> <li>× volume control,</li> <li>× measurement data memory,</li> <li>× graphic indication of leakage level.</li> <li>× Several evaluation functions such as min-function or averaging.</li> </ul>
housing	<ul style="list-style-type: none"> <li>× rugged portable aluminium case, membrane keyboard</li> <li>× dimension : 265 x 115 x 160 mm</li> <li>× weight without accessories: about 3 kg</li> </ul>
input parameters	<ul style="list-style-type: none"> <li>× pipelines made of up o 4 different materials can be processed; to be input: pipeline material, pipeline Dimension and the length of the pipeline section:</li> <li>× material: steel, cast iron, az, pvc, pe, plumb, cu.</li> </ul>
memory:	× the device can store the data of up to 20 measurements
power supply	× 9 - 16 V DC, current consumption about 1 Ampère operating time of accumulator about 20 hours with a 70% on-period; rechargeable within 2.5 hours.
processor	× 5,000,000 orders per second
range of temperature :	× - 5oC until 55oC unless stated to the contrary
user guidance:	× easy and clear with pictures symbols
<b>transmitter:</b>	
Power:	× 500 mW with BTZ certificate
Display arrangement:	<ul style="list-style-type: none"> <li>× actual acoustic signal</li> <li>× minimum acoustic signal</li> <li>× battery status</li> <li>× recharge status</li> <li>× high/low filter</li> <li>× manual/automatic amplification</li> </ul>
operating time:	<ul style="list-style-type: none"> <li>× About 6 - 8 hours of permanent operation with fully charged accumulator.</li> <li>× The transmitter switches off automatically if a key has not been pressed for 60 minutes.</li> </ul>

protection	<ul style="list-style-type: none"> <li>✗ waterproof IP 65</li> </ul>
range of temperature:	<ul style="list-style-type: none"> <li>✗ - 10 oC until 60oC</li> </ul>
housing	<ul style="list-style-type: none"> <li>✗ rugged portable aluminium case</li> <li>✗ separate compartment for sensor, tools and earphone</li> <li>✗ dimension : 200 x 65 x 165 mm</li> <li>✗ weight without accessories: about 2.5 kg</li> </ul>
<b>sensors:</b>	
Hydrophone (option)	<ul style="list-style-type: none"> <li>✗ piezoelectronic ceramics hydrophones with about -100dB upon 1 V/uPa</li> <li>✗ max. Pressure 20 bar</li> <li>✗ Range of temperature: -10oC until + 80oC</li> </ul>
magnetic coupling	<ul style="list-style-type: none"> <li>✗ waterproof piezoelectric ceramics accelerometer;</li> <li>✗ damaged magnets and connecting cables can be replaced by the user himself</li> <li>✗ 5 - 5,000Hz</li> </ul>

