

1. Geo - Correlator - LOKAL 300 - Specifications

central unit	
correlation:	<ul style="list-style-type: none"> × 32 bit correlation with 10 bit amplitude; × state of the art time domain technique; × resolution up to 5 cm × number of acquired points: up to 50,000 × FFT-function × coherence
display:	× LCD 64 x 240 pts resolution, illuminated
filter: (automatic filter search function)	<ul style="list-style-type: none"> × automatic / manual analogue filter for suppressing disturbing noises. × The measurement routine automatically determines the optimum filter setting × High - pass filter: 10 - 1,500 Hz in 100Hz steps = 16 filter × low-pass filter 30 - 4,800Hz in 300 Hz steps = 16 filter together 32 filters
geophone function:	<ul style="list-style-type: none"> × fully - applicable geophone with 8 band pass filters, × volume control, × measurement data memory, × graphic indication of leakage level. × Several evaluation functions such as min-function or averaging.
housing	<ul style="list-style-type: none"> × rugged portable aluminium case, membrane keyboard × dimension : 265 x 115 x 160 mm × weight without accessories: about 3 kg
input parameters	<ul style="list-style-type: none"> × 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: × material: steel, cast iron, az, pvc, pe, plumb, cu.
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
transmitter:	
Power:	× 500 mW with BTZ certificate
Display arrangement:	<ul style="list-style-type: none"> × actual acoustic signal × minimum acoustic signal × battery status × recharge status × high/low filter × manual/automatic amplification
operating time:	<ul style="list-style-type: none"> × About 6 - 8 hours of permanent operation with fully charged accumulator. × The transmitter switches off automatically if a key has not been pressed for 60 minutes.

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

