

## A1052 MultiSONIC

Multichannel Ultrasonic Pulser-Receiver Unit with WiFi Data Interface for Low-Frequency UT applications



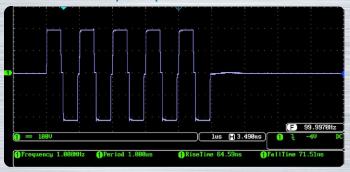
- 32 parallel pulser-receiver channels for flexible system configuration
- Wireless Data Interface
  Ethernet connection to PC, Smartphone or Tablet-PC via WiFi
- <u>Conformance</u> with all Dry-Point-Contact transducers by ACS
- Flexible excitation frequency setting
  arbitrary bipolar burst configuration within specified frequency
  range (half-cycle duration, number of half-cycles)
- <u>Versatile Software Developer Kit</u> with detailed documentation for system integrators



## Specification:

Parameter	Value	
TRANSMITTER		
Number of transmitting channels	32	
Transmitter output voltage, V	± 200 Volt (400 Vpp)	
Excitation sequence, periods	Meander, 0.5 to 5.0	
RECEIVER		
Data acquisition length, Samples	128k	
Sampling rate (MHz)	1, 4	
Filter frequencies (FIR)	HF 10,20,40,100kHz; LF 350kHz	
Receiving bandwidth	20 – 250 kHz	
Dynamic range of amplifier, dB	0 to 60	
Dynamic range of DAC function	40 dB	
Averaging factor	1 to 256	
POWER SUPPLY		
Number of receiveing channels	32	
Power source	Exchangable battery	
Operation time of the battery, not less than	8 h	
Battery charging time	2.5 h	
External power supply	DC 15 V, 4A \ AC 110-250 V	
DATA INTERFACES		
Wireless Ethernet 54 Mbit	IEE802.11n	
DIMENSIONS & WEIGHT		
Dimensions of the electronic block	200x125x100 mm (7,9 x 4,9 x 3,9 inch)	
Weight of the electronic block	2.4 kg / 5.5 pounds	

## Scalable burst excitation pulse sequence ±200 V



## Special features:

- **Diverse UT operation modes:** pulse-echo, transmitter-receiver and through-transmission
- Excitation of Golay Coded Sequences for improved SNR is possible
- Stand-alone on-site operation due to battery powered
- Free demo-software "MATHILDA<sup>32</sup>" for basic measurement applications



Delivery set:	MADE IN GERMANY
Name	Quantity, pcs.
A1052 MultiSONIC – Electronic Unit	1
Net adaptor with USB Type C power cable	1
Exchangeable Li-Ion batteries 18650	6
Lemo00 to Lemo00 cables	2
Free demo SW for smartphone / tablet PC / PC	1
Integration kit for software development by user	1

