

A1052 MultiSONIC

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



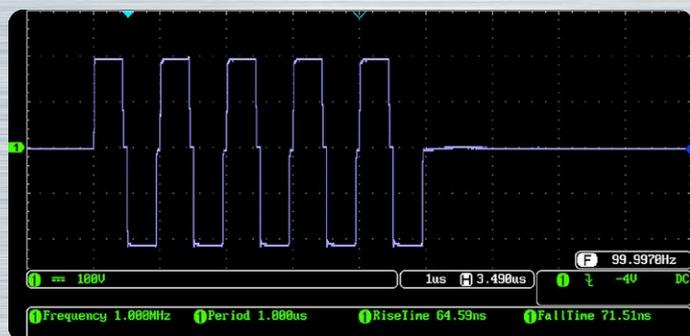
- **32 parallel pulser-receiver channels**
for flexible system configuration
- **Wireless Data Interface**
Ethernet connection to PC, Smartphone or Tablet-PC via WiFi
- **Conformance**
with all Dry-Point-Contact transducers by ACS
- **Flexible excitation frequency setting**
arbitrary bipolar burst configuration within specified frequency range (half-cycle duration, number of half-cycles)
- **Versatile Software Developer Kit**
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	
Number of receiving channels	32
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	
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	IEEE802.11n
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 "MATHILDA³²"** for basic measurement applications



Delivery set:

 **MADE IN GERMANY**

Name	Quantity, pcs.
Electronic unit A1052 MultiSONIC with 32 channels	1
Exchangeable Li-Ion accumulator, inside the electronic unit	6
Power charger	1
Power plugs (US/UK/EU)	1 (for each)
Power USB-C cable	1
USB-A to USB-C cable	1
Screwdriver Hex-Plus 2.0	1
Warranty certificate	1
Operating Manual	1
Free demo SW for smartphone/tablet PC / PC	Downloadable
Integration kit for software development by the user	On request