

A1570 EMAT

Universal OEM electromagnetic-acoustic pulser-receiver unit
for wide variety of EMAT probes



- **Compatible with diverse transducers**

The unit is suitable for driving EMAT with the novel pulse magnetization as well as the regular probes with permanent magnets

- **Flexible excitation frequency control**

Bipolar burst excitation within specified frequency range of 1 – 10 MHz

- **Ingress Protection rating IP54**

suitable for integration in inspection robots in rough environmental conditions

- **Versatile Software Developer Kit**

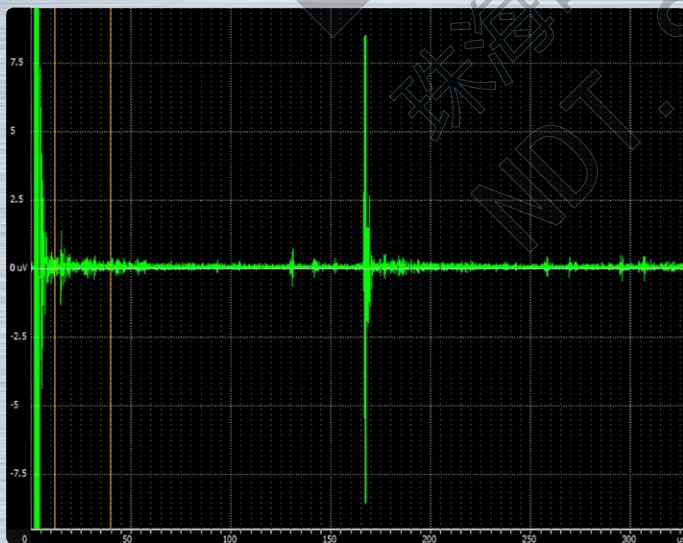
SDK compatible with the industrial protocol SCPI



Specification:

Parameter	Value
TRANSMITTER	
Output voltage, Volt	Bipolar burst ± 200 V, ± 400 V, ± 600 V
Excitation sequence, periods	0.5 to 9
Pulse repetition rate, Hz	up to 60 with the averaging factor 32
RECEIVER	
Data acquisition length, Samples	up to 8 KSamples
Sampling rate, MHz	25 MHz, 50 MHz, 100 MHz
Receiver band width, MHz	1 to 15 MHz
Dynamic range of the amplifier including Time Corrected Gain (TCG), dB	40 dB
Averaging factor	up to 32
DATA INTERFACES	
Ethernet	up to 100 MBit
WiFi 802.11b/g/n / Bitrate:802.11n	up to 150Mbps
External trigger output	TTL + RS485 pulse signal
TRANSDUCER INTERFACES	
For EMAT with pulse magnetization	Lemo 2K (EGG.2K.810. CLL1/EGG.2K.810.CLL1)
For EMAT with permanent magnet	Lemo 00 (ERN.00.250.CTL)
DIMENSIONS & WEIGHT	
Dimensions of the electronic block	320 x 165 x 55 mm
Weight of the electronic block	1650 g

A-scan for the inspection range of 270 mm

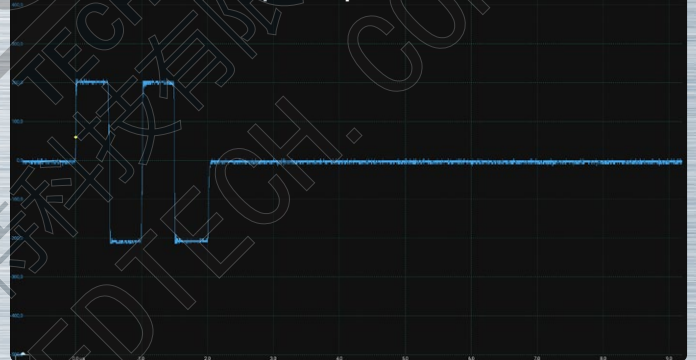


Special features:

- **Extraordinary signal quality** & signal to noise ratio due to optimal excitation
- **Flexible excitation frequency control** with bipolar burst excitation within specified frequency range of 1 – 10 MHz
- **Easiness of unit integration** due to versatile SDK compatible with the industrial protocol **SCPI**
- **Eligibility** for wide range of **R&D** purposes due to easy integration in **MatLAB**



Scalable burst excitation pulse sequence ± 200 V



Delivery set:

 **MADE IN GERMANY**

Name	Quantity, pcs.
A1570 EMAT – electronic unit	1
EMAT S7694 with linear polarization (other transducers available on request)	1
Lemo00 cable 1.2 meter (other lengths available on request)	1
WiFi Antenne	1
Ethernet cable 1.5 meter	1
Introductory application software „ACS “Mathilda-EMAT” Windows GUI App” (available at www.acs-international.com)	1
Hard case	1



**ACOUSTIC
CONTROL
SYSTEMS**

ACS-SOLUTIONS GMBH
SCIENCE PARK 2, 66123 SAARBRÜCKEN, GERMANY
PHONE: +49 (0) 681-96592270 | FAX: +49 (0) 681-96592280
WWW.ACS-INTERNATIONAL.COM | SALES@ACS-INTERNATIONAL.COM