

A1570 EMAT

Universal OEM electromagnetic-acoustic pulser-receiver unit



- <u>Compatible with diverse transducers</u>
 The unit is suitable for driving EMAT with the novel pulse magnatization as well as the regular probes with permanet magnets
- Flexible excitation frequency control
 Bipolar burst excitation within specified frequency range of 1 10 MHz
- <u>Ingress Protection rating IP54</u>
 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				
Dutpul voltage, Volt	Bipolar burst \pm 200 V, \pm 400 V, \pm 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 & WI	EIGHT			
Dimensions of the electronic block	320 x 165 x 55 mm			
Weight of the electronic block	1650 g			

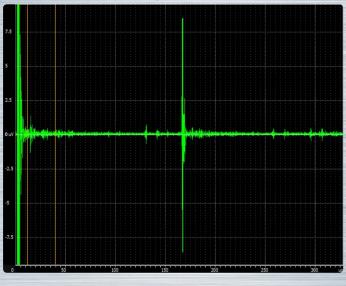
Special features:

- 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





A-scan for the inspection range of 270 mm



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

