

## 2. Specifications

### Pulser

Type	Square wave
Pulse Amplitude	Selectable from 75 to 275 Volts in 5 V steps
Pulse Width	15 to 5000 ns
Pulser Excitation	Spike (1 pulse) or Burst (1 to 10 pulses)
Modes	SINGLE (Pulse Echo), DUAL (Dual or Through Transmit), EMAT

### Receiver

Bandwidth	0.5 to 30 MHz (at -3 dB)
Frequency Filters	Broadband, Narrowband, or Custom Selectable Low and High Pass Filters 1.0 MHz, 2.0 MHz, 2.25 MHz, 4.0 MHz, 5.0 MHz, 10.0 MHz
Damping	Selection values: 42, 51, 180 or 1000 Ohms
Gain Control Range	0 to 111.0 dB
Gain Control Steps	Selectable 0.1, 0.5, 1.0 and 6.0 dB
Display	RF, Halfwave+, Halfwave-, Fullwave

### Time Base

Pulse Repetition Rate	10 Hz to 20 kHz
Test Range	3.8 mm to 14185 mm in steel (for L-waves, at PRF 200 Hz), max. 280 m in steel at PRF 10 Hz
Display Delay Range	-25 mm to 12250 mm (-8.50 $\mu$ s to 4124 $\mu$ s)
Material Velocity	1 to 19999 m/s
Angle Beam Control	Fixed settings of 0°, 30°, 45°, 60°, 70°, 80°, or variable from 0 to 90° in 0.1° increments

### Gates

Four independent gates controllable over entire sweep range

- Floating gate,
- Interface gate,
- Measuring gate – relative, absolute, amplitude, time
- Back-wall echo attenuator

Threshold	Variable 2.1 to 97.7 % of full screen
Trigger Logic	Positive or Negative
Gate Synchronization	Initial Pulse or selected interface
Analog Output	

**Connectors and Communication Ports**

Transmitter (Pulser)  
Receiver  
Analog OUT  
ETHERNET  
MULTI  
USB  
POWER

**General**

Dimensions	224×188×37 mm
Display	Color TFT 99×130 mm (1024×768 pixels) 65535 colors
Weight	0.74 Kg without battery + 0.54 kg battery for 8 hours operation
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-40 °C to 70 °C
Power	100-240 VAC, 50 to 60 Hz, 50 VA max. for battery charging and operation
Battery	Built-in rechargeable Lilon battery pack, 3.6 V, 16 Ah