





## Electromagnetic Acoustic Transducer (EMAT) Thickness Gauge

### For wall thickness measurements

#### Specifications

Manufacturer	Voliro AG
Payload length	33 cm / 13 in
Payload weight	0.67 kg / 1.48 lbs
Compliant with	ASTM E1816-18
Test mode	Peak to peak, single peak
Data visualization	Live A-Scan displayed in the Voliro App
Detection Mode	Peak

#### Default transducer

Operating frequency	3.5 - 4 MHz
Operating temperature	-20 - 60 °C / -4 - 140 °F
Measurement mode	Radially polarized shear waves
Resolution	0.06 mm / 0.002 in
Thickness range	2 - 150 mm / 0.08 - 5.9 in
Probe diameter	30 mm / 1.18 in
Max. lift-off	4 mm / 0.16 in
Min. surface diameter	5 mm / 0.2 in
Couplant	None



## Ultrasonic Transducer (UT) Thickness Gauge

### For wall thickness measurements

#### Specifications

Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.62 kg / 1.37 lbs
Compliant with	EN 12668-1 and ISO 16831:2012
Test mode	Peak to peak, single peak
Channels	Single
Data visualization	Live A-Scan displayed in the Voliro App
Detection mode	Flank, peak, max cohort

#### Default transducer

Operating frequency	4 MHz
Operating temperature	0 – 60 °C / 32 – 140 °F
Measurement mode	Compression wave
Diameter	10 mm / 0.4 in
Elements	Dual-element
Thickness range	2 – 150 mm / 0.08 – 5.9 in
Couplant	Water-based gel
Resolution	0.06 mm / 0.002 in

Transducer can be swapped to a transducer with a different frequency



## Ultrasonic Transducer (UT) High Temperature Thickness Gauge For wall thickness measurements

### Specifications

Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.62 kg / 1.37 lbs
Compliant with	EN 12668-1 and ISO 16831:2012
Test mode	Peak to peak, single peak
Channels	Single
Data visualization	Live A-Scan displayed in the Voliro App
Detection mode	Flank, peak, max cohort

### Default transducer

Operating frequency	5 MHz
Operating temperature	0 – 260 °C / 32 – 500 °F
Measurement mode	Compression wave
Diameter	8 mm / 0.3 in
Elements	Dual-element
Thickness range (in steel)	2 – 150 mm / 0.08 – 5.9 in
Echo to echo range (in steel)	2.5 – 50 mm / 0.1 – 2 in
Natural focus depth	10 mm / 0.394 in
Couplant	Extended temperature ultrasonic couplant
Resolution	0.06 mm / 0.002 in

Transducer can be swapped to a transducer with a different frequency



## Dry Film Thickness (DFT) Gauge

### For coating thickness measurements

#### Specifications

Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.27 kg / 0.6 lbs
Compliant with	EN ISO 1461, 2064, 2178, 2360, 2808, 3882, ASTM B 244, B 499, D 7091, E 376
Measurement method	F: Magnetic induction for coating thickness on ferrous metals N: Eddy current for coating thickness on non-ferrous metal
Measurement range	F: 0 – 1.5 mm / 0 – 60 mils N: 0 – 0.7 mm / 0 – 30 mils

Needle probe payload



Cable management system



Ohmmeter



## Wind Turbine LPS Tester For full circuit resistance measurements

### Specifications

Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.10 kg / 0.22 lbs
Max. cable weight	0.66 kg / 1.46 lbs

### Ohmmeter specifications

Device type	Micro-Ohmmeter VG-BAT-150 special
Manufacturer	Mostec
Compliant with	EN 62305-3
Measurement method	4-wire measurement
Measurement current	0.30 A (for resistances <20 Ω)
Measurement range	0.001-1000 Ω
Resolution	0.01 mΩ
Max. voltage	24 V
Max. inspection height	250 m / 820 ft AGL
Turbine rotor orientation	Any, single stop inspection possible

