

SONOSCAN PL1 EN

Pulse Echo Probe for Contact Technique

- Transducer dimensions: \varnothing 24 mm
- Centre frequency: 1 MHz
- Coupling membrane: Vulkollan®



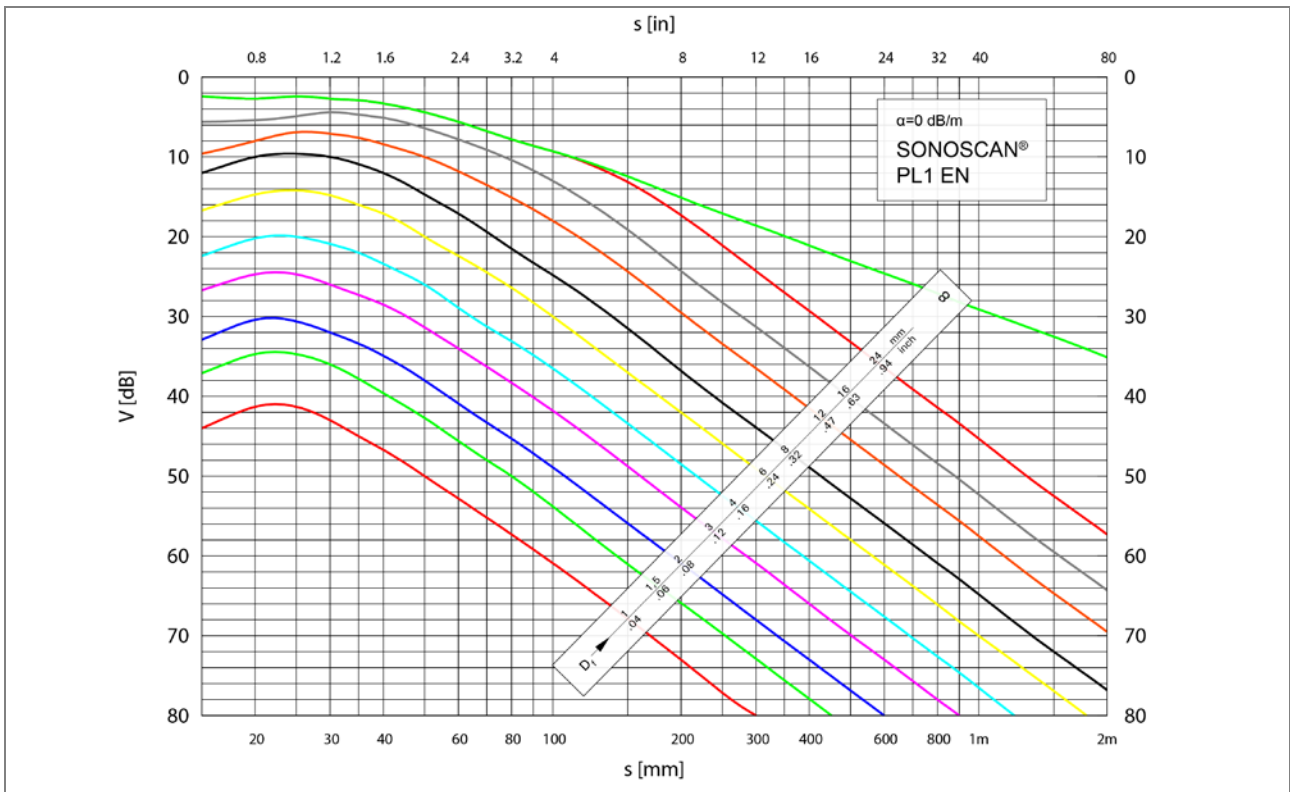
Technical Data according to EN 12668-2:2009	Reference	Tolerance	Dimensions
Echo pulse duration *	3.6	± 0.5	μ s
Centre frequency *	1	± 0.1	MHz
Relative bandwidth @ -6 dB *	41	± 7	%
Relative pulse-echo sensitivity *	-32.5	± 3	dB
Transducer dimensions	\varnothing 24	± 0.1	mm
Near field length	23	± 4	mm
Focal diameter	2.9	± 0.3	mm
Focal length @ -6 dB	38	± 14	mm
Divergence angle	7.5		Degree
Squint angle	≤ 2		Degree
Offset	< 1		mm
Deviation from flatness of contact surface	< 0.05		mm
Transducer material	Piezoelectric ceramics		
Electrical connection	LEMO 1S		
Housing material	Stainless steel, Plastics		
Probe protective layer	Epoxy filled		
Wear allowance	0.5 mm		
Working temperature	-20 °C ... +60 °C		
Weight	209 g		
Order number	100 02 0001		

* measured on 40 mm polystyrene;

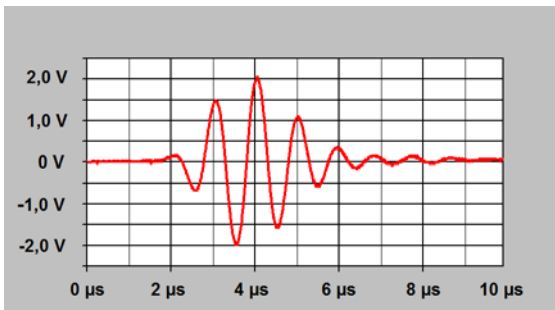
All other values refer to steel as described in EN 12223 concerning manufacture of calibration block no. 1, temperature range 23 ± 5 °C.

Test Conditions	
Test apparatus	SONOSCREEN ST10
Voltage	100 V
Damping	50 Ω
Pulse width	500 ns

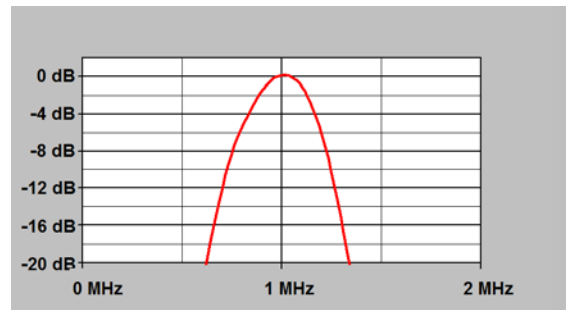
DGS-Diagram



Pulse Shape



Spectrum



Electrical Impedance

