

Ultrasonic Wall Thickness Gauges

QS5 Series

Advanced instruments to cover your specific needs

They are mainly used to measure metals with or without coatings. Plastics, acrylics, ceramics and glass can also be measured and all models include a material condition analyzer, a coupling energy level indicator, real time BScan graphics, statistics and much more. In multi-echo models you can measure thru-paint and in models with a Datalogger transfer values to a PC using dmq DataCenter software.

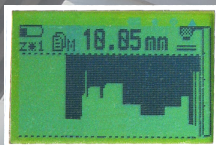


- P-E
- E-E
- B-Scan
-
- USB
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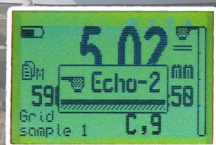
Applications

- Measure structures with coatings
- Used in boilers and tanks
- Pipes and tubes, die casts, founded parts
- Ship hulls, sheet metal
- Plastics industry (extrusion, molding)

Unit Screens



Real time BSCAN graphics & statistics



Switch between Echo-1 and Echo-2 modes touching the "Echo" key



Outstanding Features

- Measure THRU-PAINT
- Coupling energy level indicator
- Material condition analyzer
- Adjustable gain and trigger
- Selectable scan speed (4,8, 20Hz)
- 1-point AUTO or 2-point calibration
- On-screen materials velocity chart
- Statistics
- Memory for 32000 + readings
- Transfer data to a PC via USB (DL models)
- DMQ DataCenter Software
- Model upgrade licenses
- High impact ABS enclosure with rubber sides
- Touch-Sense front panel (no mechanical parts)

4 Models

	QS5 <i>B</i>	QS5 <i>DL</i>	QS5 <i>E</i>	QS5 <i>DLE</i>
1 point AUTO and 2 point calibration	•	•	•	•
Real-time BSCAN (4, 8, 20 Hz)	•	•	•	•
Statistics	•	•	•	•
Material Condition Analyzer	•	•	•	•
Alarms: Min., Max., Corrosion	•	•	•	•
Coupling Energy Level Indicator	•	•	•	•
<i>Pulse-Echo (normal measurements)</i>	•	•	•	•
<i>Echo-Echo (measure THRU-PAINT)</i>			•	•
<i>Transfer values Data Logger (DL)</i>		•		•

B = Base
E = Multi-Echo
DL = Data Logger



Technical Specifications

Measurement		User Interface	
Normal range	0.6 to 500mm Pulse-Echo	Languages	English, Spanish and Portuguese
Thru-Paint range	2.5 to 25mm Echo-Echo with coatings of up to 2mm	Navigation	Menus and Icons
Resolution	0.01mm	Personal ID	Personal data entry
Velocity	100 to 19999 m/s	Electronic Unit	
Units	Metric, inch and μ seconds	Dimensions	78 x 117 x 24 mm
Calibration		Weight	180g with batteries
Mode	1 point AUTO or 2 points	Working Temp	-10° a +50°C
Data Logger		Enclosure	High impact ABS with rubber sides
Capacity	32000 + Reading	Power Supply	
Organization	Up to 8 files with names	Batteries	2 x AA 1,5v
Internal Clock	Record date and time	Battery life	100 hours w/backlight off
Capture modes	Manual, single, automatic	Battery Indicator	Permanent
PC Connection		Shutdown	Manual, Auto
Connection	USB or RS232 (optional cable)	Display	
Updates / Upgrades	Unit software / Model	Digits sizes	12 and 17mm tall (Easy-view)
Front Panel		Backlight	LED (ON, OFF, AUTO)
Type	Touch-Sense	Contrast	Digital and adjustable
Sensitivity	Adjustable	LCD	Graphic LCD 128 x 64 px
Transducers		Frequencies	
Dual Crystal	Transmitter / Receiver	2Mhz diam 1/2"	High attenuation
Connector	Type Lemo 00	5Mhz diam 10mm	Standard & Hi-damp
Frequency range	2 to 10MHz	7Mhz diam 5mm	Thin materials or small parts

Presentation

- QS5 electronic unit
- 5Mhz transducer
- Coupling gel
- Printed user manual
- High impact carrying case
- Certificate of conformity



dmq DataCenter Software

DataCenter is a universal program developed by Demeq that is used to download and process data in models with a Data Logger (DL). Values stored in the unit memory can be transferred to a PC via USB and with the tools in DataCenter you can generate statistics, graphics, export values to other programs, and prepare custom reports.

