

Nodularity gauges

QSV Series

Different models to meet your requirements

Ultrasonic Velocity or Nodularity Gauges are used to determine material types based on their sound velocity and in the foundry industry you can determine cast iron types based on the relationship that exists between nodularity and sound velocity. Measurements require that you know the thickness of the test piece that can be entered manually or with the use of a digital caliper connected to the QSV.



P-E



USB



5
YEAR
WARRANTY

Applications

Measure sound velocity to determine material types

Determine cast iron types

Relate acoustic wave velocities to mechanical properties

Digital Caliper Interface



Insize ® Digital Caliper Model 1108-150



Mitutoyo ® Digital Caliper Model 500-171-20B



Outstanding Features

- Real time digital caliper readings in the unit display
- USB digital caliper interface
- Memory for 5000 + readings
- Transfer data to a PC via USB (DL models)
- dmq DataCenter Software
- AUTO 1-step calibration (no Cal Key)
- High impact ABS enclosure with rubber sides
- Touch sense front panel (no mechanical parts)
- Graphic LCD with LED backlight illumination
- Large 17mm tall digits for easy viewing
- Alarms
- Hold minimum value

4 Models

	QSV <i>B</i>	QSV <i>DL</i>	QSV <i>DCI</i>	QSV <i>DCM</i>
1-point AUTO calibration (no Cal key)	•	•	•	•
Manual thickness entry	•	•	•	•
Transfer values to a PC (Datalogger)		•	•	•
Insize ® digital caliper interface cable			•	
Mitutoyo ® digital caliper interface cable				•



Interface Cable for Insize
Caliper model 1108-150

Measure and
touch the "Q"
key to enter to
unit



Measure and touch
the "Orange But-
ton" on the caliper
to enter to unit



Interface Cable for Mitutoyo
Caliper model 500-171-20B

Technical Specifications

Measurement

Normal range	1 to 500mm
Resolution	0.01mm
Velocity	100 to 19999 m/s
Velocity	1m/s

Calibration

Mode	1 point AUTO
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Data Logger (DL models)

Capacity	5000 + Readings
Organization	Up to 8 files with names
Capture modes	Manual, Continuous

Connections

Data transfer	USB (DL models)
Caliper Interface	USB for Insize Digital Caliper USB for Mitutoyo Digital Caliper

Front Panel

Type	Touch-Sense
Sensitivity	Adjustable

User Interface

Languages	English, Spanish and Portuguese
Navigation	Menus and Icons

Electronic Unit

Dimensions	78 x 117 x 24 mm
Weight	180g with batteries
Working Temp	-10° a +50°C
Enclosure	High impact ABS with rubber sides

Power Supply

Batteries	2 x AA 1,5v
Battery life	100 hours w/backlight off
Battery Indicator	Permanent
Shutdown	Manual or Auto

Display

Digit size	17mm tall
Backlight	LED (On, Off, Auto)
Contrast	Digital and adjustable
LCD	Graphic LCD 128 x 64 px

Presentation

- QSV electronic unit
- 2 or 5 MHz transducer
- Coupling gel
- USB cable to connect to PC
- dmQ DataCenter Software
- 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.



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