

## Nodularity gauges

### Different models to meet your requirements

dmq QSV Series Ultrasonic Velocity Gauges are used to determine material types based on sound velocity measurements. In the foundry industry, QSV gauges are used to determine cast iron types based on the direct relationship that exists between nodularity and sound velocity. Measurements require that you know the thickness of the part that can be entered manually, or with the use of a digital caliper connected to the QSV via USB.



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

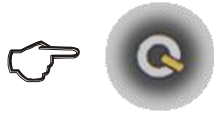
### 3 Models

	QSV <i>B</i>	QSV <i>DL</i>	QSV <i>DLC</i>
1 Point AUTO Calibration ( No Cal Key )	•	•	•
Coupling Indicator	•	•	•
Alarm	•	•	•
Manually Enter Material thickness	•	•	•
<i>Transfer values Data Logger ( DL )</i>		•	•
<i>Digital Caliper Interface ( DLC )</i>			•

*B = Base*  
*DL = Data Logger*  
*C = Caliper Interface*



Interface Cable for Insize Caliper model 1108-150



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



Measure and touch the "Orange Button" 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

#### Resolution

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
- 2Mhz 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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