

Acoustic wave velocity gauges

QSV Series

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.



Applications

- Measure sound velocity to determine material types
- Determine cast iron types
- Determine percentage of nodularity
- 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

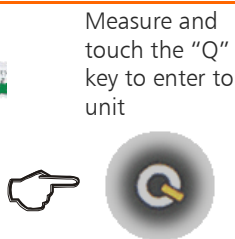
3 Models

	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	•	•	•
Transfer values Data Logger (DL)		•	•
Digital Caliper Interface (DLC)			•

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

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 Dmq 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.

