












# Ultrasonic Velocity Gauges

Ultrasonic Velocity 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.

-  Measuring range from 1 to 500mm
-  0.01mm resolution
-  Velocity from 100 to 19999m/s
-  Digital caliper compatible
-  Alarms
-  Minimum Value Hold
-  AUTO 1-step calibration (no Cal Key)
-  USB for data transfer <sup>1</sup>
-  **The best post-sale support**
-  Memory for 5000 readings
-  **5 year limited warranty <sup>2</sup>**



1. Models with Datalogger. dmo DataCenter free of charge.  
2. On the electronic unit.

## Ideal for measuring...

Calculate percentage of nodularity<sup>3</sup>

Determine cast iron types

Catalog materials by their speed of propagation

3. The electronic unit does NOT perform the nodularity calculation.

## Transducers



### 2MHz 90° transducer

Ideal for measuring materials with attenuation and/or large thicknesses.  
Range 4 to 500mm | Temp. -10 a 40°C



### 5MHz Ø10mm transducers.

General use transducers.

**90°:** Range 1 to 300mm | Temp. -10 a 40°C

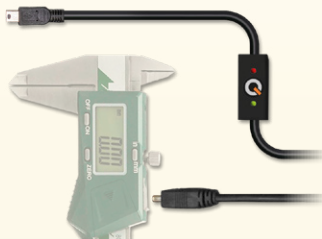
**Straight:** Range 1 to 300mm | Temp. -10 a 40°C

## DMQ interface for connecting caliper to QSV B / QSV DL



Streamline your measurements and ensure reliable values by connecting a caliper to your QSV incorporating the DMQ interface cable to enter the thickness of the piece to be measured, a necessary parameter for calculating the ultrasonic velocity. We have DMQ connection interfaces for InSize and Mitutoyo digital calipers.<sup>4</sup>

<sup>4</sup>. The caliper is sold separately.

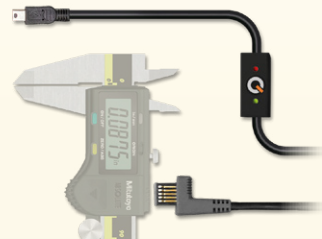


### QSC001

**DMQ interface for InSize® digital caliper**

Length: 1 meter.

eg: Caliper model 110B-150



### QSC002

**DMQ interface for Mitutoyo® digital caliper**

Length: 1 meter.

eg: Caliper model 500-171-30B

## Models

You can upgrade your instrument with licenses that allow you to upgrade by adding the model features and functions you need.



Models



Data output



DMQ interface output for caliper

QSV B



QSV DL



### DIMENSIONS



79 x 117 x 32mm  
(3.11 x 4.6 x 1.26in)

### WEIGHT



182g  
(0.40lbs)

### POWER



Battery: AA x2  
Battery life: 60 hours<sup>5</sup>

### VELOCITY



100 to 19999m/s: 1m/s  
(3.94 to 787.36in/ms: 0.04in/ms)

<sup>5</sup>. Display light off.

## Ready to use

Delivered in a high impact carrying case where inside you will find:

- 1 QSV electronic unit
- 2 2MHz transducer
- 3 Coupling gel
- 4 USB cable to connect to a PC<sup>6</sup>
- 5 Pendrive with dmq DataCenter software<sup>6</sup>
- 6 User manual
- 7 Certificate of conformity



6. QSV DL models

## dmq DataCenter

Es nuestro software de adquisición para PC que permite recibir, procesar y exportar los datos almacenados en nuestros equipos con datalogger.

DataCenter esta disponible para su descarga sin costo adicional.



Conecte su equipo a una PC



Visualice sus mediciones



Grafique sus mediciones



Analice la información



Exporte a otras aplicaciones



Genere reportes



dmq DataCenter

Disponible para  Windows XP / 7 / 8 / 10  
en [www.demeq.com/datacenter](http://www.demeq.com/datacenter)



# QSV Series

## Ultrasonic Velocity Gauges



**dmq** | Measure  
+ Control

Instruments developed and manufactured by DEMAQ

📍 Armenia 3878 | B1605CEJ Munro, Buenos Aires | Argentina

☎ Sales: +54 11 4765-7678 | 📞 Service: +54 11 4765-9647

💬 Whatsapp: +54 9 11 6974-5058

✉ dmq@demeq.com | 🌐 www.demeq.com



Importer / Distributor