













Thickness gauge for pipes in production

The multichannel thickness gauge QST is the ideal option for the control of plastic pipes (HDPE, PVC, FRP) continuously in production, allowing optimization of the use of raw materials and obtaining 100% quality control.

Due to its modularity and robustness, it is the best option to implement continuous ultrasound measurement systems for pipes in a wide range of diameters and wall thicknesses.



-  Easy installation and configuration
-  Save data by time or distance
-  Measures pipes from 20 to 250mm (0,8 to 10 in)
-  Compact and robust electronic unit
-  Length measure by encoder
-  Visual alarms with relay output
-  Measure up to 4 channels simultaneous¹
-  Real-time measurement
-  A-Scan mode for channel adjust
-  Bluetooth and RS232 data output
-  **5 year warranty²**
-  **The best post-sale support**

1. Depends on the model, / 2. In the electronic unit only.

Ideal for...

Measure thickness of plastic pipes in production

Optimize the use of raw material

100% quality control and report

Transducers



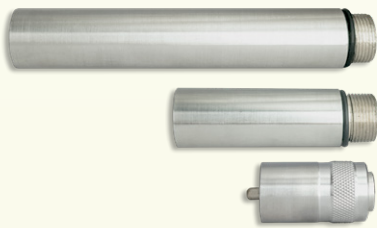
2MHz Straight Transducer

Ideal for thick walls / large pipes diameter.



5MHz Straight Transducer

Recommended for thin wall/ small and medium pipes.



Extension for transducers

Allows to adjust the transducer position according to the technical needs of your system.

Available in various sizes.

Models

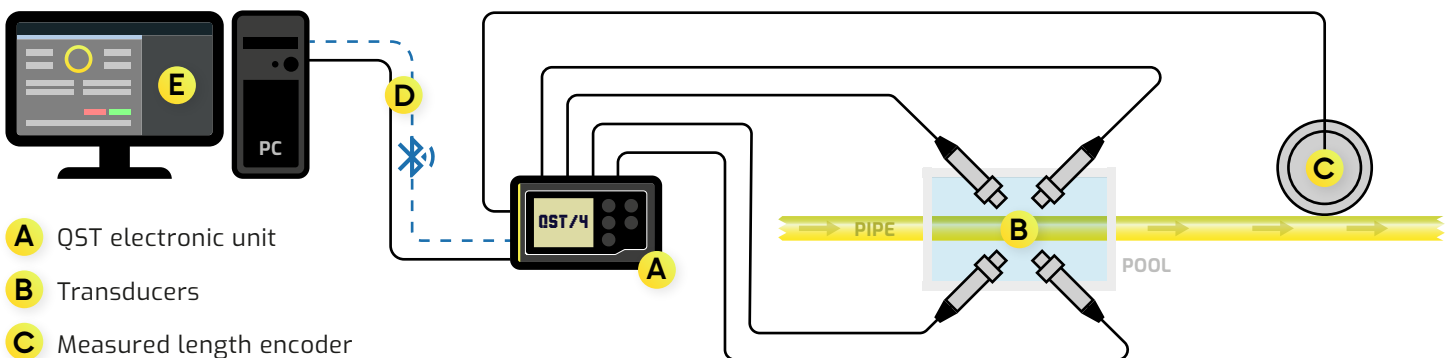
The QST has a modular design that allows you to measure up to 4 simultaneous channels, you can purchase the equipment with the number of channels required by your application.



Models

QST/1		1 Channel (1 Transducer)
QST/2		2 Channels (2 Transducers)
QST/3		3 Channels (3 Transducers)
QST/4		4 Channels (4 Transducers) RECOMMENDED CONFIGURATION

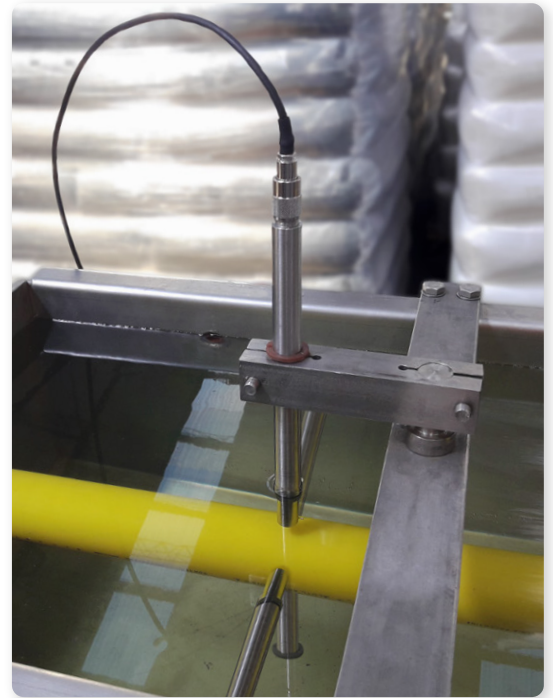
System schematic



- A** QST electronic unit
- B** Transducers
- C** Measured length encoder
- D** Data transmission via Bluetooth or RS232
- E** Data reception and management software dmq DataCenter

Presentation

- QST electronic unit
- 2 or 5Mhz transducer(s)
- Extensions and connection cable(s) for the transducer(s)
- Pendrive with adquisition software and documentation



NOTE: The mechanical system is not included with the equipment.

dmq DataCenter

The QST is delivered with a software for receiving and handling the data generated by the equipment in this way you can control the extrusion of the pipe from your PC at the same time that the measurements are stored. Ask for custom modifications.



Connect your QST to PC



Date and Time stamp



Pipe position control



Assignment resin and batch



Selection and editing operator



Data Registration and save



dmq DataCenter

Available for  Windows XP / 7 / 8 / 10

Specifications and product details

Technical Specifications

Parameter	Value / Description
Measure principle	ECHO-ECHO (single crystal transducer)
Channels	1 to 4 (depending on configuration)
Measure Range	0.5 to 200 mm
Transducer frequency	2 and 5 Mhz
Measure frequency	8 Hz (aprox.)
Units	Millimeters and inches
Resolution	0.01mm from 0.40 to 99.99mm 0.1mm from 100.0 to end of range 0.02 mm from 0.030 to 9.999 mm 0.01 in from 10.00 to end of range
Material velocity	100 to 9999m/s 3.937 to 393.6 in/ms
Gain	Adjustable for each channel (6 to 86 dB)
Trigger	Adjustable level for each channel
Alarms	By minimum and maximum. Luminous warning, on screen and relay output.
Languages	Spanish or English
Connection to PC	Bluetooth and RS232
Position encoder	Incremental type (5 VDC)
Display	240 x 128 pixel backlit graphic with adjustable contrast
Keyboard	Flexible Dome Touch Type
Power supply	220VAC (110VAC on request)
Consumption	20W (aprox.)
Fuse	220V 0,5A
Operating temperature	-10° C to +50° C
Dimensions	260 x 133 x 267 mm (Width x Height x Depth)
Weight	4.9 kg



QST Series

Thickness gauge for pipes in production



dmq | Measure
+ Control

Instruments developed and manufactured by DEMAQ

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Importer / Distributor