Technical Information CYR52

Ultrasonic cleaning



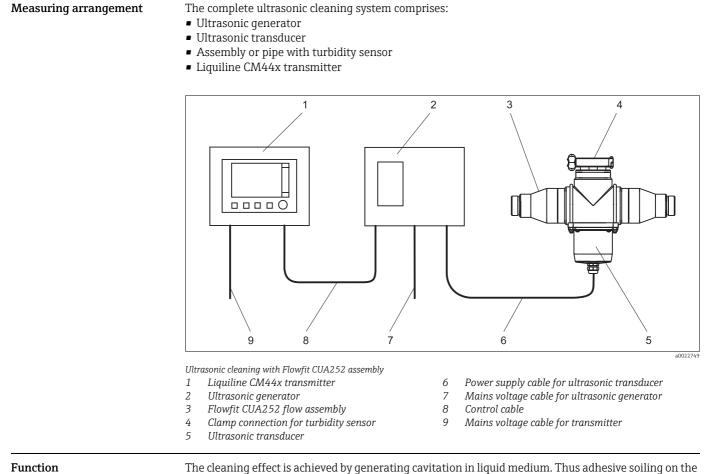
Application

The CYR52 ultrasonic cleaning unit is used to clean turbidity sensors that are installed in pipes.

Your benefits

- The sensor remains always clean.
- No process interruption for sensor cleaning
- No contamination of the medium caused by sensor cleaning





Function and system design



The cleaning effect is achieved by generating cavitation in liquid medium. Thus adhesive soiling on the sensor is dissolved and removed by the flow.

The ultrasonic transducer is mounted face to face with the turbidity sensor directly on the assembly or on the pipe.

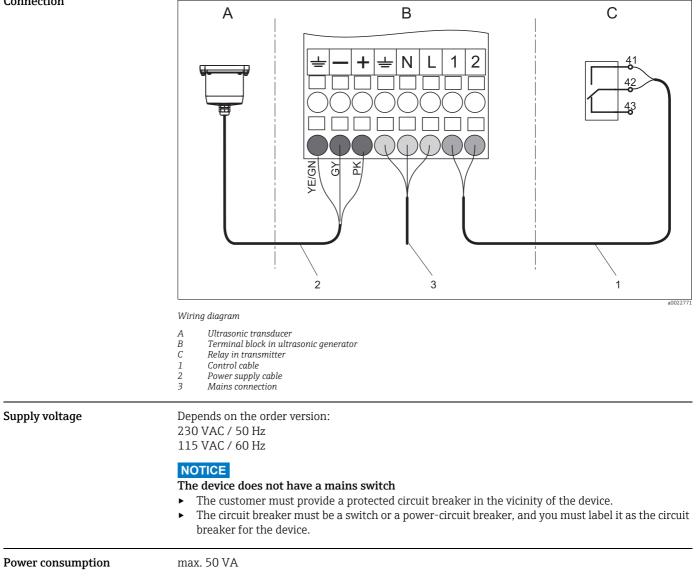
Output

Operating frequency of the ultrasonic cleaning

approx.. 40 kHz

Power supply





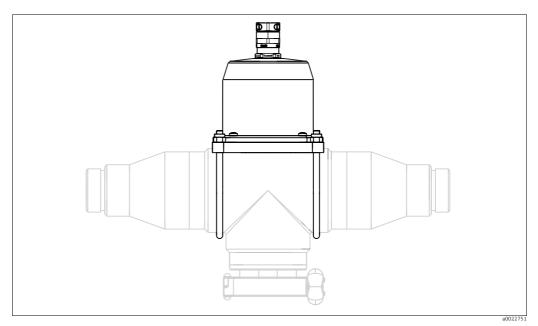
Installation

Installation conditions

The ultrasonic transducer is mounted face to face with the turbidity sensor.

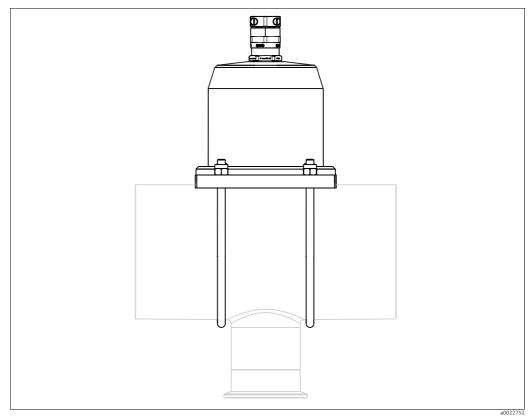
Installation options

With Flowfit CUA252 flow assembly



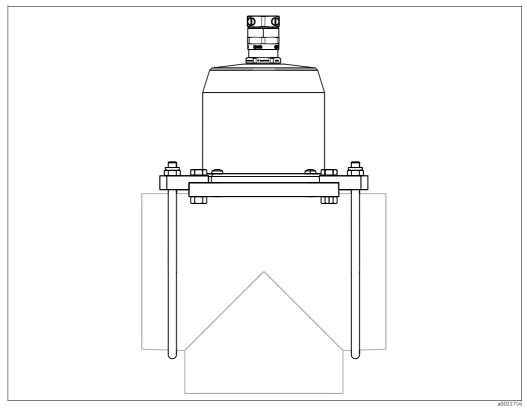
Ultrasonic transducer on Flowfit CUA252 assembly

With Flowfit CUA262 flow assembly



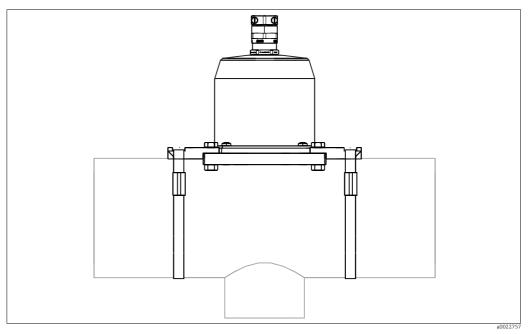
Ultrasonic transducer an Flowfit CUA262 assembly

With assembly CUS31



Ultrasonic transducer with assembly of CUS31

Mounted on a pipe

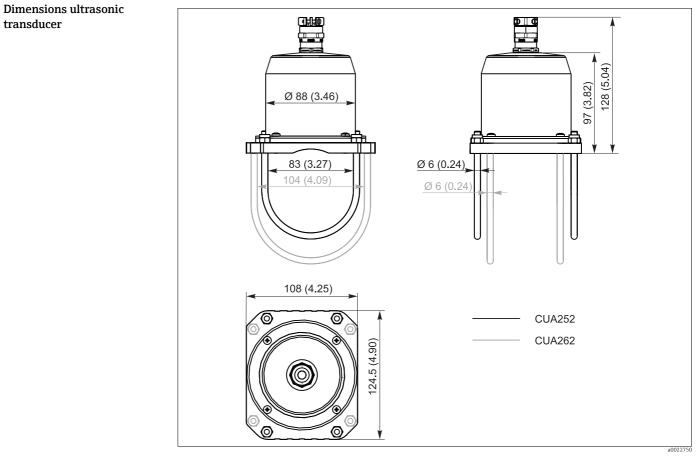


Ultrasonic transducer mounted on a pipe

Ambient temperature range	Ultrasonic transducer: Ultrasonic generator:	0 to 60 °C (32 to 140 °F), non-freezing, non-condensing -10 to +60 °C (+14 to 140 °F), non-condensing	
Storage temperature	0 to 60 °C (32 to 140 °F)		
Electromagnetic compatibility	Interference emission and interference immunity as per EN 61326-1:2006, EN 61326-2-3:2006		
Degree of protection	Ultrasonic transducer: Ultrasonic generator:	IP 68 IP 66/67	
Humidity	10 to 95 %, non-condensin	g	

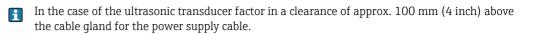
Environment

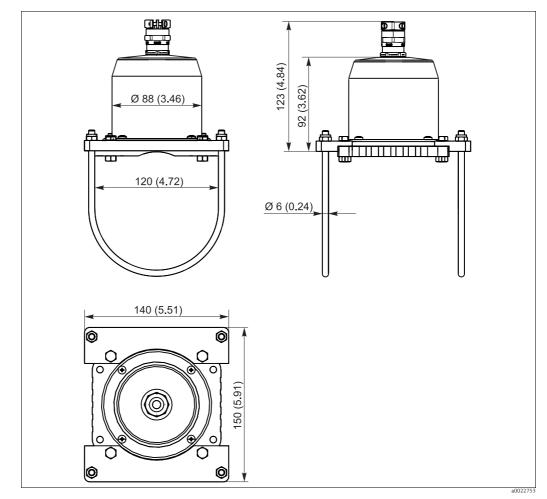
transducer



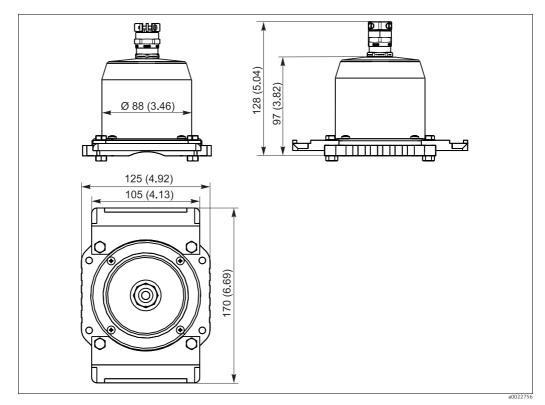
Mechanical construction

Dimensions in mm (inch) for CUA252 and CUA262



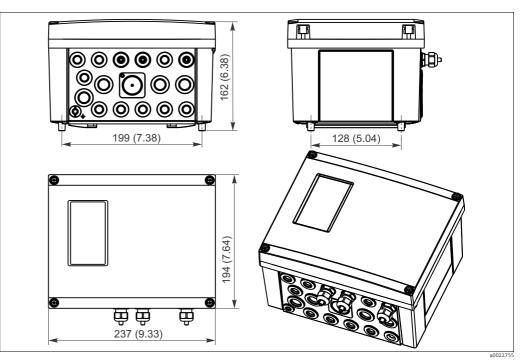


Dimensions in mm (inch) for assembly of CUS31



Dimensions in mm (inch) for pipe mounting

Dimensions ultrasonic generator



Dimensions in mm (inch)

Weight	Ultrasonic transducer: Ultrasonic generator:	0.72 kg (1.59 lbs), with 3 m cable 2.2 kg (4.85 lbs)			
Materials	Ultrasonic transducer	Ultrasonic transducer			
	Cover: Floor: Cable:	PE Aluminum TPE-U mix; 3xLi9Y 0.75; sheath: Ø 6.6 mm Minimum bending radius: 66 mm (2.6 inch) when cable can move freely 33 mm (1.3 inch) when cable cannot move freely			
	Ultrasonic generator				
	Housing: Housing seal: Cable glands:	PC-FR EPDM Polyamide			

Product page	You can create a valid and complete order code online using the Configurator tool: Enter the following addresses in your browser to access the product page: www.endress.com/cyr52	
Product configurator	On the right-hand side of the product page, you will find the navigation area:	
	 Under "Device Support", click "Configure your selected product". └→ The Configurator opens in a new window. 	
	 Configure the device according to your requirements by selecting all options. 	
	3. Export the order code as a PDF or Excel file. To do so, click on the relevant button at the top of the selection window.	
Scope of delivery	 The scope of delivery of the ultrasonic cleaning system comprises: 1 Ultrasonic generator 1 Ultrasonic transducer Mounting material depending on the order version 1 Set of Operating Instructions BA01300C/07/EN 	

Ordering information

Installation accessories

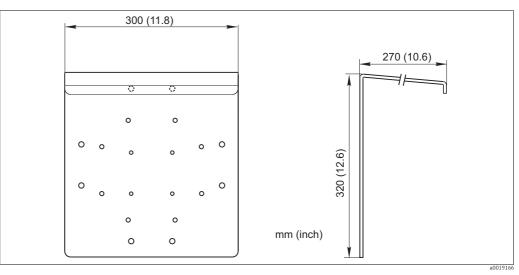
Accessories

Image: The most important accessories available at the time this document went to print are listed below.Contact your Service Department or sales center for accessories that are not listed here.

Description	Order number
Mounting paste for CYR52	71242140
Mounting kit for CUA252	71242141
Mounting kit for CUA262	71242142
Mounting kit for flow assembly CUS31 E/S	71242143
Mounting kit, variable	71242145
Post mounting kit for securing the ultrasonic generator to horizontal and vertical posts and pipes	71096920

The CYY101 weather protection cover for field devices is absolutely essential

- Material: stainless steel 1.4301 (AISI 304)
- Order No. CYY101-A



Weather protection cover for field devices

www.addresses.endress.com

