Technical Information **CUY52**

Calibration set for turbidity sensor CUS52D



Application

Easy and safe validation, calibration and adjustment of the turbidity sensors CUS52D.

Field application or application preparation:

The calibration set CUY52 allows quick and safe validation of the sensors and facilitates adaption to the real measuring point by creating reproducible ambient conditions (vessels with very low backscattering, shadowing of interfering light sources, etc.)

Your benefits

- Easy, safe and quick validation of the CUS52D sensors with solid state reference.
- Easy, safe and reproducible comparison measurements with calibration vessels almost free of backscattering.



People for Process Automation

Large calibration vessel	The large calibration vessel is recommended for measurements or calibrations in the lower turbidity range (<200 FNU / NTU). Design and material allow measurements without wall effects. Consequently, the calibration vessel can be used for calibration / adjustment of the sensor with ultrapure water.
Small calibration vessel	The small calibration vessel is recommended for measurements or calibrations in the upper turbidity range (200 1000 FNU / NTU). Wall effects will result in wrong measurement values when used in the lower turbidity range.
Solid state reference	The solid state reference with approx. 4.0 FNU /NTU is used to check the function of any CUS52D sensor. The solid state reference is not assigned to a particular sensor. It produces measured values in the range of 4.0 FNU /NTU \pm 1.5 FNU / NTU with any CUS52D sensor.

Function and system design

Performance characteristics

 Solid state reference
 approx. 4.0 ±1.5 FNU / NTU

 Installation
 Eix the sensor in a laboratory stand.

Installation instructions	Fix the sensor in a laboratory stand. Recommendations for the laboratory stand:		
	Length of stand: Plate of stand: Extension clamp:	250 mm, 12 mm diameter 300 x 150 x 15 mm with bore hole on front face Stainless steel, jaw width 0 to 80 mm	
	Use a magnetic stirrer to ensu	re the homogeneity of media with higher turbidity.	
	Recommendations for the mag	gnetic stirrer:	
	Motor power rating: RPM range: Length of swizzle stick: Stirring capacity of H ₂ O:	9 W 0/50 to 150 rpm 80 mm max 20 liter	

Environment

Storage temperature

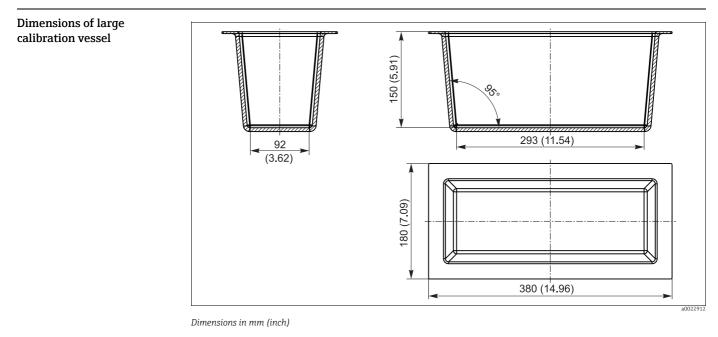
0 to 60 $^\circ\!\!C$ (32 to 140 $^\circ\!\!F$) in the original packaging

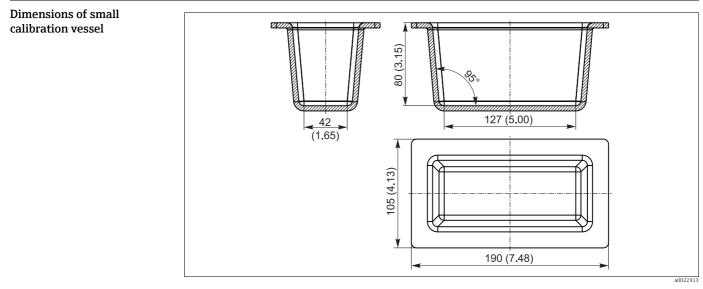
Process

Process temperature

0 to 50 °C (32 to 122 °F)

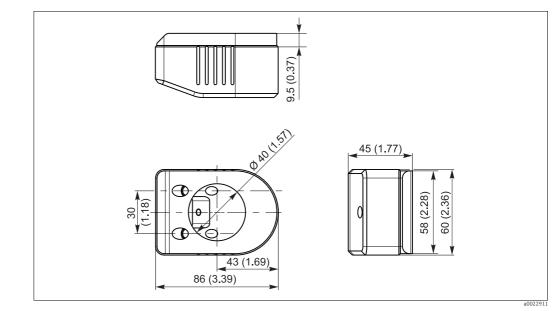
Mechanical construction





Dimensions in mm (inch)

Dimensions of solid state reference



Dimensions in mm (inch)

Weight	Vessel, large: Vessel, small: Solid state reference:	approx. 512 g (18.1 oz) approx. 136 g (4.8 oz) approx. 232 g (8.2) oz)	
Materials	Vessels:	ABS black	
	Solid state reference:	POM black	

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Order code	You can generate a valid and complete order code on the internet using the Configurator: www.products.endress.com/cuy52	
	1. On the right-hand side of the product page you will find the following options:	
	Product page function	
	 Add to product list Price & order information Compare this product Configure this product 	
	2. Click on "Configure this product".	
	3. The Configurator opens in a new window. You can now configure your device and will receive a valid and complete order code for it.	
	4. Now export the order code as a PDF or Excel file. To do this, click on the relevant button at the top of the page.	
Scope of delivery	The scope of delivery comprises: • Calibration set in the ordered version • Operating Instructions BA01309C/07/EN	

Ordering information

www.addresses.endress.com

