

Ultrasonic Flowmeter Calculation Sensor Spacing Manual For website

This tool is used for calculating the sensor spacing of the ultrasonic flowmeter.

File name : File name: Click “Calculation Sensor Spacing”.

“Calculation Sensor Spacing” screen is displayed.

1. Calculation sensor spacing screen

Select the necessary information to enter. After entry, press the “EXECUTE” button, and the calculation result is displayed on the “SENSOR SPACING1” and “SENSOR SPACING2”.

See the following table for input items of calculation sensor spacing tool.

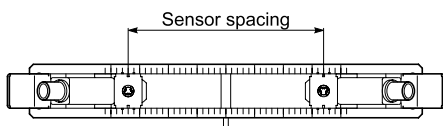
(Note) The values after the decimal point may differ from those of the main unit depending on the accuracy of calculation.

2. Explanation of input items

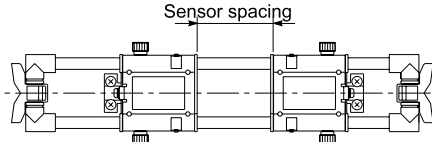
<What Enter>

Item	Contents
OUTER DIAMETER	Enter in the range from 6.00 to 6200.00 mm (two decimal places)
PIPE MATERIAL	Select from carbon steel, stainless steel, PVC, copper, cast iron, aluminum, FRP, ductile iron, PEEK, PVDF, acrylic, PP, and pipe S.V.
PIPE SOUND VELOCITY	Enter in the range from 1000 to 3700 m/s (no decimal point)
WALL THICKNESS	Enter in the range from 0.10 to 100.00 mm (two decimal places)
LINING MATERIAL	Select from no lining, tar epoxy, mortar, rubber, Teflon, pyrex glass, PVC and lining S.V.
LINING SOUND VELOCITY	Enter in the range from 1000 to 3700 m/s (no decimal point) (If “Lining S.V.” is selected as lining material”.)
LINING THICKNESS	Enter in the range from 0.01 to 100.00 mm (two decimal places) (If “No lining” is selected as lining material.)
KIND OF FLUID	Select for water, seawater, dist. water, ammonia, alcohol, benzene, bromide, ethanol, glycol, kerosene, milk, methanol, toluene, lube oil, fuel oil, petrol, coolant R410, and fluid S.V.
FLUID S.V.	Enter in the range from 300 to 2500 m/s (no decimal point)
SENSOR MOUNT	Select from V method and Z method.
SENSOR TYPE	Select from FLS_12, FLS_22, FLW11/FSG_31, FLW12/FSG32, FLW41/FSG_41, FLW50/FSG_50, FLW51/FSG_51, FLD12, FLD22, and FLD32.
SENSOR SPACING 1	Displays the calculation result of sensor spacing 1.
SENSOR SPACING 2	Displays the calculation result of sensor spacing 2. (If FLS_12 or FLS_22 is selected as sensor type.)

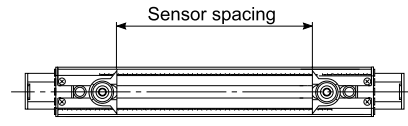
TYPE:FLS



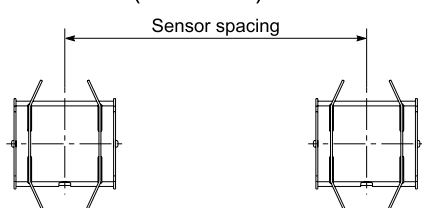
TYPE:FLW



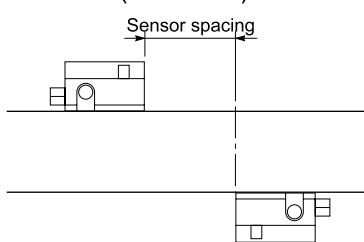
TYPE:FLD



TYPE:FLW5(V method)



TYPE:FLW4(Z method)



TYPE:FLW5(Z method)

