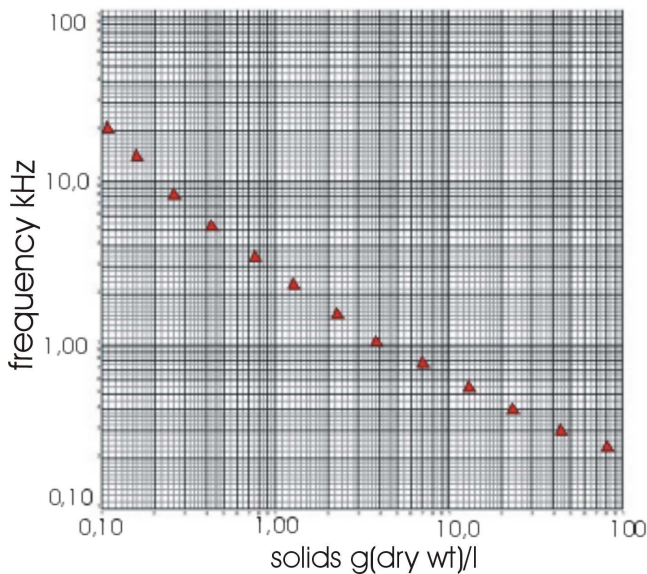


SDM2

Sludge Density Meter with Ultrasonic

Frequency as a function of solids content



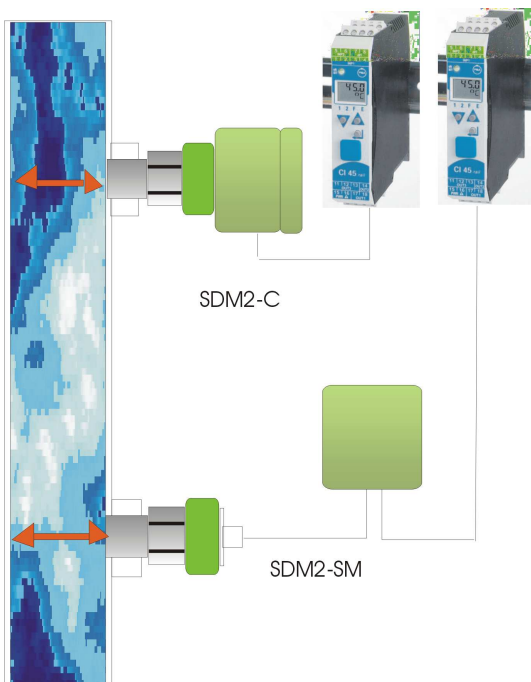
The sludge density measurement works according to the principle of the absorption measurement of ultrasonic waves with reflection on the tubing or container wall. According to standard with a sensor with a frequency between approximately 1 MHz... 2 MHz and a transducer one works. Only in cases of extremely large absorption of the ultrasonic waves by very high solid content or when measurements in very large containers, a sensor with low resonant frequency can be necessary. The term mud density covers celebration materials solved

here (suspended solids) in liquids. The solids can be mineral or organic kind. The measurement is independent of coloring materials. A comparison with standards of the optical

measurements is not possible directly. In concrete case of application a calibration with Test-Liquids is, their solid content gravimetrically usually

determined

necessarily. With clear liquid (liquid without solids) a terminator point of the calibration curve is determined. The functional test of the measuring



instrument can take place with filled line in addition, in a small container.

Execution forms of sludge density meters SDM2:



SDM2-C (sludge density meters compactly)



SDM2-S (sludge density meters separated)



Cable connection: Clamping screw connection



SDM2-SM (sludge density meters separated)



Cable connection: Screw connection can be plugged in