

The invention concerns measuring techniques and can be used for measurement of levels and interfaces of liquid and loose media with regular automatic verification of results of measurements during operation time of measuring system.

The method consists in generation by the generator of outgoing pulses a signal, which represents the superposition of video signal and voltage difference signal, a sensitive element emits a signal into controllable medium which is received as a reflected signal, and stroboscopic converter, analog-digital converter and computing device process the received signal and after its waveform the media interfaces and temperature is determined. Without stopping technological process and without additional material inputs the periodic verification of measuring values is made during operation of measuring system on regular workplace with the help of reference measure by comparison of the measured signal with the signal of reference measure and calculation of deviation value according to the algorithm, which takes into account the shift of coordinates of the reference measure.