



Univerzitet u Beogradu, Građevinski fakultet



KALIBRACIJA SENZORA

Merenja u hidrotehnici

2. Vežba

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DEFINICIJA

- International Bureau of Weights and Measures (BIPM)–

"Operation that, under specified conditions, in a first step, establishes a relation between the quantity values with measurement uncertainties provided by measurement standards and corresponding indications with associated measurement uncertainties (of the calibrated instrument or secondary standard) and, in a second step, uses this information to establish a relation for obtaining a measurement result from an indication."

Uspostavljanje funkcionalne zavisnosti između izlazne veličine i željene merne veličine.

PRIMERI

1. Grupa – Kalibracija EM senzora brzine

$$V \left[\frac{m}{s} \right] = f(U[mV]) \quad V_{et} = A \cdot U + B$$

2. Grupa – Kalibracija ultrazvučnog senzora protoka

$$Q_{et} \left[\frac{L}{s} \right] = f(Q_{uzv} \left[\frac{L}{s} \right]) \quad Q_{et} = A \cdot Q_{uzv} + B$$

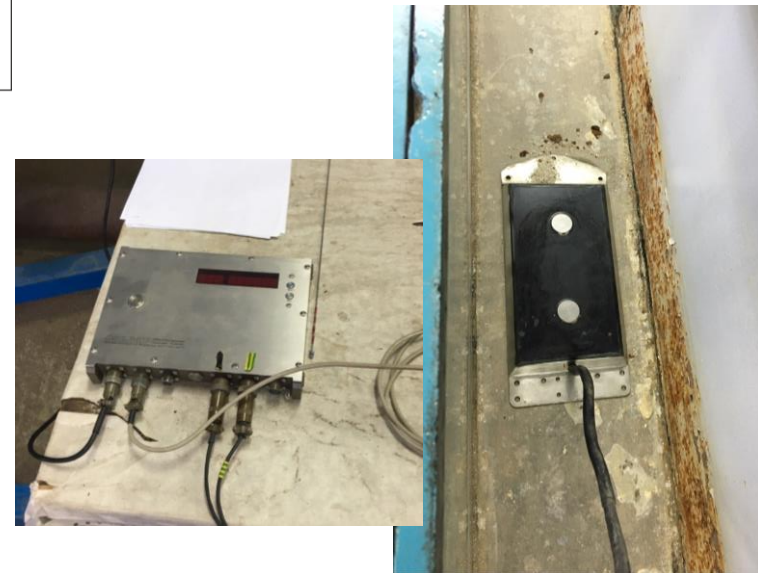
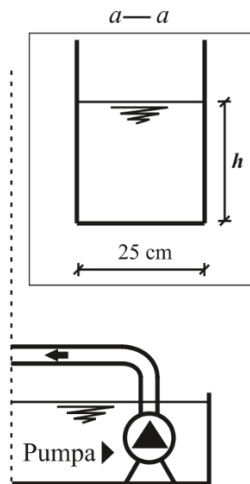
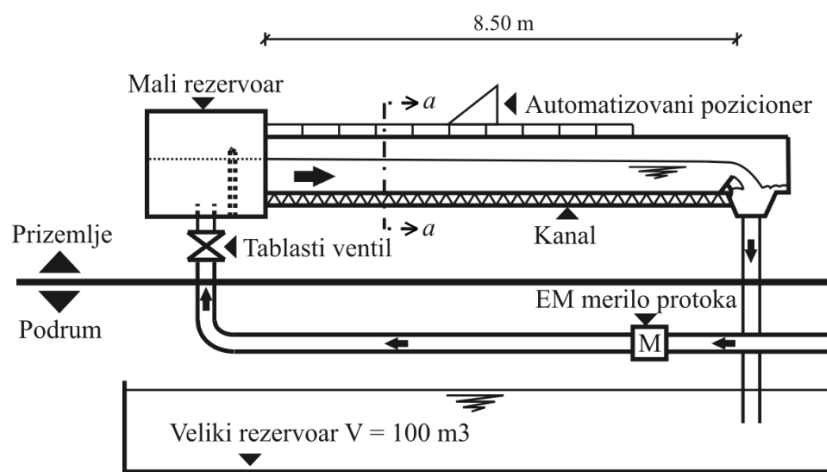
3. Grupa – Kalibracija senzora pritiska na multiparametarskoj sondi

$$h_{et}[m] = f(h_{mps}[m]) \quad h_{et} = A \cdot h_{mps} + B$$

$$h_{et} = h_{mps} + B$$

PRIMERI

1. Grupa – Kalibracija EM senzora brzine



PRIMERI

Željena
Merna
veličina



Izlazna veličina

