

Entity accredited according to ČSN EN ISO/IEC 17025:2018:

Výzkumný ústav vodohospodářský T. G. Masaryka, veřejná výzkumná instituce
Czech Calibration Station of Current Meters
Podbabská 2582/30, 160 00 Praha 6

CMC for the field of measured quantity: Mechanical motion

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit					
1	Water flow velocity derived from the rate of revolution of the current-meter rotating element (with varying pitch \underline{k}) / Propeller-type current-meters (current-meters of rotating-element type and without its control unit)	0.02 m·s ⁻¹	to 1.5 m·s ⁻¹	$\underline{k} = 0,05$ m	0.0079 m·s ⁻¹	Towing the current-meter through still water with temperature of 1 °C to 26 °C contained in a straight tank with a uniform cross section at a number of steady speeds and recording the pulses delivered by the current-meter	ISO 3455	
		0.02 m·s ⁻¹	to 2.5 m·s ⁻¹	$\underline{k} = 0,1$ m	0.0084 m·s ⁻¹			
		0.06 m·s ⁻¹	to 3.5 m·s ⁻¹	$\underline{k} = 0,125$ m	0.011 m·s ⁻¹			
		0.06 m·s ⁻¹	to 5 m·s ⁻¹	$\underline{k} = 0,25$ m	0.017 m·s ⁻¹			
		0.06 m·s ⁻¹	to 6 m·s ⁻¹	$\underline{k} = 0,5$ m	0.025 m·s ⁻¹			
		0.06 m·s ⁻¹	to 7 m·s ⁻¹	$\underline{k} = 1$ m	0.034 m·s ⁻¹			
2	Water flow velocity derived from the velocity directly indicated by the device / Electromagnetic and ultrasonic hydrometric devices (current-meters of rotating-element type or stationary-sensor type and with its control unit)	0.02 m·s ⁻¹	to 7 m·s ⁻¹		0.06 m·s ⁻¹	Towing the current-meter through still water with temperature of 1 °C to 26 °C contained in a straight tank with a uniform cross section at a number of steady speeds and reading the velocities indicated by the current-meter in constant time intervals	Q/214/I02 (ISO 3455)	

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

³ If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations:

\underline{k} propeller pitch