www.vzornn.com

dual-channel on-line dissolved hydrogen meter MARK® 509 A

Continuous measurement of dissolved hydrogen concentration (DHC) and temperature of aqueous solutions with excessive hydrostatic pressure up to 20 MPa.

Patented unique sensor design |

Stable operation at hydrostatic pressure changes |

Permissible short-term (up to 5 min) pressure overload – (hydraulic shock) – up to 40 MPa |

Easy and quick membrane replacement |

Dry state storage is acceptable |

Calibration interval – 6 months |

Communication with external devices |
Galvanic isolated current outputs 0–5/4–20/0–20 mA.
RS 485 port. Communication protocol MODBUS RTU.

Programmable setpoints with dry contacts outlet |

WARRANTY
12
months

VZOR

specification

	Measuring range	Resolution	Accuracy
DH concentration, ppb	0–20000 [1]	0,1	±(10+3%*C)
Temperature, °C	0–70	0,1	±0,3
	[1] programmable		C – measured value
	Converting unit		Sensor
Mounting	Wall	Panel	
Dimensions, mm	266*170*95	252*146*115	⌀ 110*192
Weight, kg	2,60	2,60	1,0
Power supply	220 V or 36 V, 50 Hz /10 V · A		

environment requirements

Temperature, °C	15–50
Analyzed water flow rate through the chamber, dm^3/min	0,1–0,5
Pressure, MPa, max	20

ORDERING DATA

basic kit

Converting unit
DH sensor
Calibration device
DH sensor spare parts kit
Electrolyte

optionally

Hydrogen sensor for the second channel
Hydraulic panel
Flow-through chamber
Extension cable up to 95 m