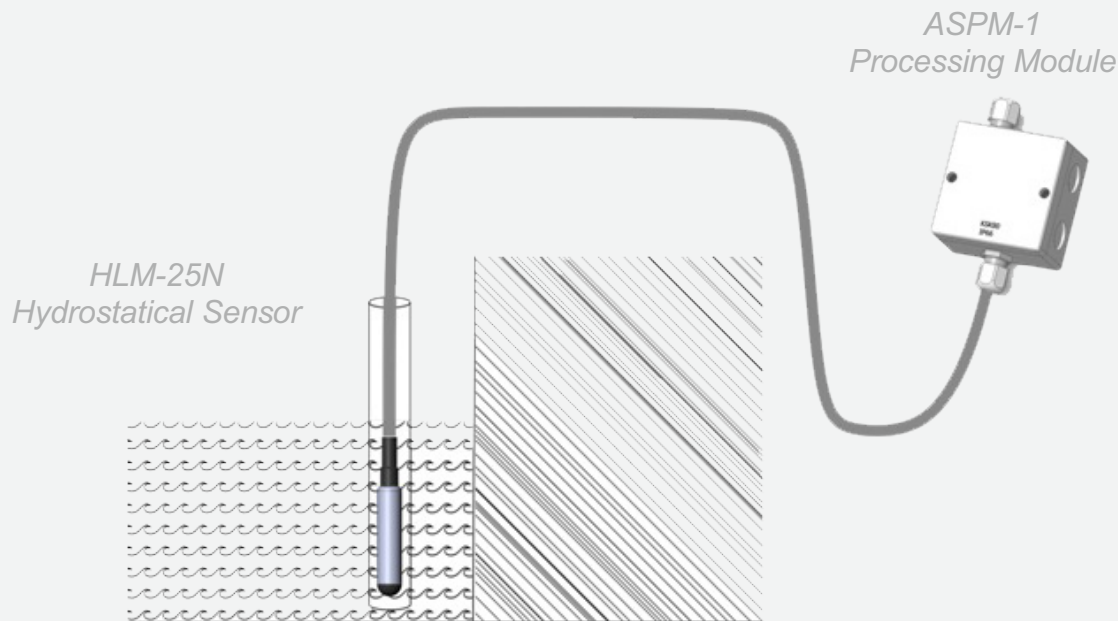


ANALOG SIGNAL PROCESSING MODULE

Analog Signal Processing Module (ASPM-1) coupled with the submersible absolute pressure sensor is designed to determine the water level in the outside water basin or reservoirs. The water level is determined based on the measured absolute water pressure at the location of the installed probe. Connection type is "Probe - ASPM-1 - current loop 4-20 mA. ASPM-1 output interface is RS485 digital standard interface.

Climatic modification type of ASPM-1 is UHL4 that means operation in the areas with moderate and cold climate and environmental class 4 (in premises with artificially controlled climatic conditions). Protection class of environmental effect is IP66.



SPECIFIC FEATURES

- ▶ Presetting of warning and accident threshold values of measured level from upper level program (supplied as part of ASPM-1).
- ▶ RS485 digital standard interface enables a simple "daisy chain" of similar type sensors and other sensors with equivalent interface.

MAIN TECHNICAL FEATURES

Input current signal range	0.5 or 4..20 mA
Measurement sampling rate	1..2400 Hz
Communication interface, digital standard interface	RS 485
Operating temperature range	-10..+70 °C
Sensor supply voltage	10..30 V DC
Power consumption	1.5 W max
Sensor dimensions	80x80x50 mm
Weight	0.3 kg

Design solutions of Physical Processes Analysis Design Group

Physical Process Analysis Design Group of RPC Radiy is set up for development of seismic protection systems, calibration equipment and qualification of product data at NPP. The Design Group designs and implements the Seismic Sensor that is the source of seismic data for the seismic protection equipment of nuclear power plants, mines and other facilities requiring seismic protection. Other successfully designed and implemented product is the vibration measuring system for periodic calibration of seismic sensors in semi-automatic mode. Besides nuclear products, the Design Group has developed the Information Acquisition and Display Unit that is the basic item in any monitoring system design including the Automatic System for Early Diagnostics of Emergencies. Additionally, the Design Group develops the angle precision gages for the wide scope of measurement.