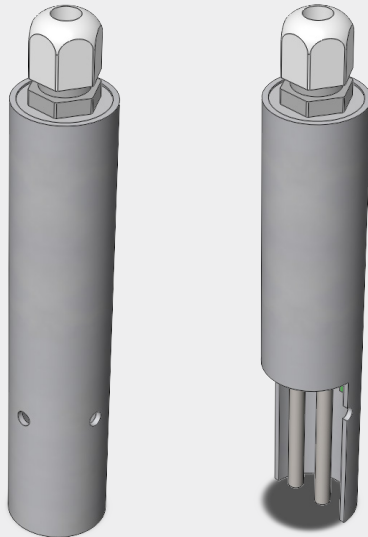


WATER PROXIMITY SENSOR

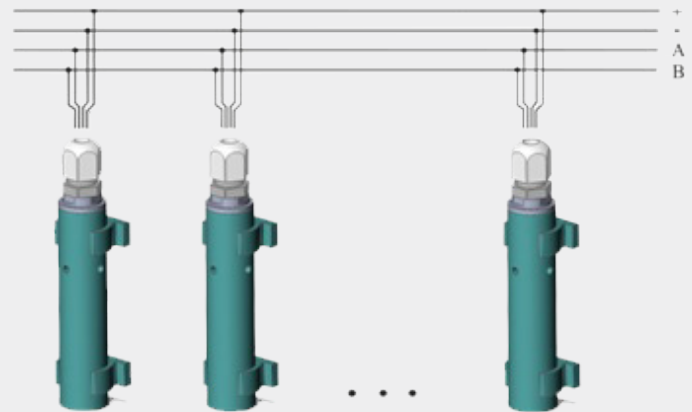
Water proximity sensor (hereinafter – WPS-1) is designed for the output of the discrete logic emergency signal in case of flooding of the object where the sensor is installed. The sensor is intended for using in the different monitoring systems or automated systems of early emergency detection to output the emergency flooding parameters specified in the standards DBN V. 1.2.-5:2007, DBN V.2.5-76:2014. The sensor is applied both for the flood monitoring and raising humidity detection in the different industrial and non-industrial premises.

Environmental effect protection level of WPS electronics is IP67 Group.

Sensor WPS-1



Installation of WPS-1



MAIN TECHNICAL CHARACTERISTICS

Working section length	41 mm
Humidity range (at temperature 0..50°C)	0 ... 100%
Humidity range (at temperature - 10..70°C)	0 ... 80%
Communication interface, digital interface of a standard	RS 485
Operating temperature range	-10..+70°C
Sensor supply voltage	10..30 B DC
Consumed power	2 W, max
Overall dimensions of a sensor	141x25
Weight	0.2 Kg

SPECIFIC FEATURES

- ▶ Galvanic isolation of water sensing electrodes with the power circuits and interface exchange lines.
- ▶ RS485 digital interface provides a possibility for the daisy chain installation of either WP sensors or other sensors with the similar interface.

Design Solutions of Physical Process Analysis Design Bureau

Physical Process Analysis Design Bureau of PC "RPC Radiy" is set up for development of seismic protection systems, calibration equipment and qualification of product data at NPP. The bureau designs and implements the Seismic Sensor that is the source of seismic data for the seismic protection equipment. 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 bureau 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 bureau develops the angel precision gages for the wide scope of measurement.