

SUMMARY

Diploma project contains: pages - 76, drawings - 31, tables - 11 and graphic part on 3 sheets A1.

The test prototype of the hydroponic installation control system was developed in this diploma project. Types of hydroponic installations were considered and their advantages and defects were revealed. The technical task for designing of installation is formed.

On the basis of the technical task, a block diagram was designed and sensors, other equipment (pumps, heaters, etc.) were selected.

After forming the table of control rules, a schematic was developed. The firmware of the device was developed, the firmware algorithms were checked according to the table of control rules.

The calculation and implementation of this diploma project was provided through the use of the following programs: Microsoft Office Word 2016, Microsoft Office Visio 2016, Atollic TrueStudio, Proteus 8 Professional.

HYDROPON INSTALLATION, CONTROL SYSTEM, VOLTAGE, PWM MODULATION, RESEARCH, EXPERIMENTS, CIRCUIT SCHEME.

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	<i>Letter</i>	<i>№ of doc.</i>	<i>Sign.</i>	<i>Date</i>				
<i>Devel.</i>	<i>O. Osanadze</i>				<i>" Electromechanical automationsystem of hydroponic installation" Summary</i>	<i>L.</i>	<i>Page</i>	<i>Pages</i>
<i>Checked</i>	<i>S. Dymko</i>					7	76	
<i>N. Contr.</i>	<i>V. Teryaev</i>			<i>KPI AEMS-EP EP-61</i>				
<i>Approved.</i>	<i>S. Peresada</i>							