Water Level Measurement Solution Measuring and Managing Levels

Manual for Installation and Operation





1 Installation



EN

WARNING - Beware of high voltage. To avoid electric shock hazard,

never work on a system connected to power or within two minutes after disconnection.

READ AND FOLLOW ALL INSTRUCTIONS!

RETAIN THESE INSTRUCTIONS FOR FUTURE USE!

Before installing the WLMS, disconnect the controller from the power supply.

- Plug the barometer PCB into the main board of the PS2 controller or in the IO board of the PSk3 controller (see for reference figure 1 and 2). For a PS2 controller, a main board version V2.0 or higher is required
- 2. Attach the WLMS balancing valve inside a cable gland, see figure 3
- 3. Install the WLMS sensor above the non-return valve of the pump
- 4. Connect the WLMS to the analog input terminals of the controller
- Ensure the latest PumpScanner version is installed (V3.57 or higher) or the latest LORENTZ Assistant version (V1.2.0 or higher) is installed
- Use PumpScanner/Assistant to connect to the controller, update the firmware if needed, and add WLMS under installation settings (see figure 4 & 6)
- Open feature settings (PS2) or the operational settings (PSk3) to adjust switch on / off levels. A switch off level of less than 0.5 m is not possible (see figure 5 & 7)

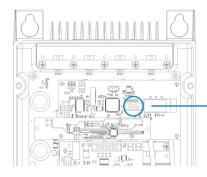


Figure 1: PS2 controller board with barometer PCB



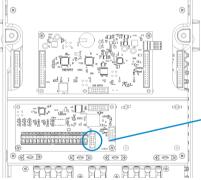


Figure 2: PSk3 controller board with barometer PCB





Figure 3: Valve fixed inside cable gland

Figure 4: PumpScanner Installation Settings

Water Meter		F
Analog Input 1		Pump Control
Sensor Type	(?)	Control Pum
WLMS-25	0	🗹 Control Pum
Measuring range		🗹 Analog In
25 m		Pump OFF
Water Level Display Offset		
0 m		Pump ON
Liquid Density	?	Delay timer
1000 kg/m ³	-	🗌 Analog In
Analog Input 2		Sensor co
Sensor Type	?	Control Pum
WLMS-25		
		Switch output
CANCEL	SAVE	CANCEL

Figure 5: PumpScanner Feature
Settings

J. 20229369	PS2-600	C-SJ5-8			
Feature Settings					
Pump Control					
Control Pump by Pressure				?	
Control Pump by Level Sensor			?		
🗹 Analog Ir	iput 1				
Pump OFF	BELOW	0.5	m		
Pump ON	ABOVE	0.8	m		
Delay timer		0	min.		
Analog Input 2					
Sensor combination					
Control Pump by Water Meter			?		
Switch output					
CANCEL		SA	VE		

Figure 6: Assistant Installation Settings

Figure 7: Assistant Operationa
Settings

- PSk3 Demo Pump	* ≔
ASHBOARD DATA	SETTINGS
100.00	
Analog Input 1	
WLMS-25	
Range max. [m]	
Analog Input 2	
Sensor type Level Sensor	•
Range max. [m]	
AC power source	
Grid	•
Grid type Star grounded	•
Grid Voltage 415 V	

← PSk3 Demo Pump Constant level Level Limit 1 Min. level Min. level value [m] -0.5 - Undershoot tolerance [sec.] -0 Restart mode Delay Timer - Restart level [m] -0.8 Restart delay [sec.] -0 Max. level Level Limit 2 Source Analog Input 2 • Min. level

LORENTZ

About LORENTZ

LORENTZ is the global market leader in solar powered water pumping solutions. Founded in Germany during 1993 LORENTZ has pioneered, innovated and excelled in the engineering and manufacturing of solar powered water pumping. Today LORENTZ is active in over 130 countries through a dedicated network of professional partners. LORENTZ technology uses the power of the sun to pump water, sustaining and enhancing the life of millions of people, their livestock and crops.

Simply - Sun. Water. Life.



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