

Check boxes to confirm settings. **Black** = Default settings **Blue** = Second most used **Brown** = Optional

<b>LIFT STATION INSTALLATION FORM for VOLUCALC HYBRID CS</b>																
<b>Serial Number</b>										x						
<b>Units</b>	<b>Predefined setups</b>	<input type="checkbox"/> <b>International</b> <input type="checkbox"/> <b>United States</b> (Related settings in same color)														
	Length	<input type="checkbox"/> <b>Meters (m)</b> <input type="checkbox"/> Feet (ft) <input type="checkbox"/> Inches (in) <input type="checkbox"/> Centimeters (cm)														
	Area	<input type="checkbox"/> <b>Squared meters (m<sup>2</sup>)</b> <input type="checkbox"/> Squared feet (ft <sup>2</sup> )														
	Volume	<input type="checkbox"/> <b>Liters (l)</b> <input type="checkbox"/> <b>US gallons (US gal)</b> <input type="checkbox"/> Imperial gallons (UK gal) <input type="checkbox"/> Cubic meters (m <sup>3</sup> ) <input type="checkbox"/> Cubic feet (ft <sup>3</sup> )														
	Temperature	<input type="checkbox"/> <b>Celsius degrees (°C)</b> <input type="checkbox"/> <b>Fahrenheit degrees (°F)</b>														
	Rain	<input type="checkbox"/> <b>Millimeters (mm)</b> <input type="checkbox"/> Inches (in)														
	Flow	<input type="checkbox"/> <b>Liters per second (l/s)</b> <input type="checkbox"/> <b>US gallons per minute (GPM)</b> <input type="checkbox"/> Millions of gallons per day (MGD) <input type="checkbox"/> UK gallons per minute (GPM) <input type="checkbox"/> Millions of UK gallons per day (MGD) <input type="checkbox"/> Cubic meters per day (M <sup>3</sup> D)														
<b>General Information</b>	<b>Device Name</b>	Max of 20   <input type="checkbox"/> Use Serial Number														
	Description															
	Address									City:						
	State or province									Postal Code:						
	Country	<input type="checkbox"/> BR <input type="checkbox"/> CA <input type="checkbox"/> US Other:														
	MaidMaps	Latitude:					Longitude:									
	Contact Name/Title															
	Phone						Email:									
	Power Source	<input type="checkbox"/> AC only <input type="checkbox"/> <b>AC + Battery backup</b> <input type="checkbox"/> External Batt. ( <input type="checkbox"/> Lithium)														
	Ethernet	<input type="checkbox"/> None <input type="checkbox"/> <b>Standard (Wired network)</b> <input type="checkbox"/> <b>Cellular modem</b>														
Influent position	<input type="checkbox"/> <b>Above top level</b> <input type="checkbox"/> Below lowest level <input type="checkbox"/> At level:															
Password	<input type="checkbox"/> Protect device with a password Enter 5 digits between 1 and 4:															
<b>Display</b>	Language (Last used)	<input type="checkbox"/> English <input type="checkbox"/> Français <input type="checkbox"/> Português <input type="checkbox"/> Español														
	Time zone (Last used)	<input type="checkbox"/> -3 Brasil <input type="checkbox"/> -4 AT <input type="checkbox"/> -5 EST <input type="checkbox"/> -6 CT <input type="checkbox"/> -7 MT <input type="checkbox"/> -8 PT <input type="checkbox"/>														
<b>Lift Station</b>	<b>Number of pumps</b>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4														
	<b>Fixed Speed</b>	<input checked="" type="checkbox"/> (including VFD for soft starts and stops)														
	<b>Flow Algorithm</b>	<input type="checkbox"/> None <input type="checkbox"/> External Flow (Measured) <input type="checkbox"/> Fixed Pump Capacities <input type="checkbox"/> Pump Curves <input type="checkbox"/> <b>Volumetric</b> <input type="checkbox"/> <b>Volumetric with Level Sensor</b>														
	<b>Electricity</b>	Nb of phases		Tension volts		<input type="checkbox"/> Delta <input type="checkbox"/> Wye			Power Factor		Cost per kWh					
	<b>Preset Pumps Capacities</b>	<b>1</b>	12	13	14	123	124	1234	134	<b>2</b>	23	24	234	<b>3</b>	34	<b>4</b>
	<b>Advanced Configuration</b>	Soft Start Duration seconds				Soft Stop Duration seconds				Start Threshold Ratio % of CT range						
<b>Inputs and Outputs</b>	<b>Relay P1</b>	<input type="checkbox"/> <b>Not Used</b> <input type="checkbox"/> Alarm Out <input type="checkbox"/> Volume In <input type="checkbox"/> Volume Out <input type="checkbox"/> Modem Ctrl														
	<b>Relay P2</b>	<input type="checkbox"/> <b>Not Used</b> <input type="checkbox"/> Alarm Out <input type="checkbox"/> Volume In <input type="checkbox"/> Volume Out <input type="checkbox"/> Modem Ctrl														
	<b>Relay P3</b>	<input type="checkbox"/> <b>Not Used</b> <input type="checkbox"/> Alarm Out <input type="checkbox"/> Volume In <input type="checkbox"/> Volume Out <input type="checkbox"/> Modem Ctrl														
	<b>Relay P4</b>	<input type="checkbox"/> <b>Not Used</b> <input type="checkbox"/> Alarm Out <input type="checkbox"/> Volume In <input type="checkbox"/> Volume Out <input type="checkbox"/> Modem Ctrl														
	<b>Pump 1</b>	Phase <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 15A <input type="checkbox"/> <b>75A</b> <input type="checkbox"/> 150A <input type="checkbox"/> 300A <input type="checkbox"/> Custom: A														
	<b>Pump 2</b>	Phase <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 15A <input type="checkbox"/> <b>75A</b> <input type="checkbox"/> 150A <input type="checkbox"/> 300A <input type="checkbox"/> Custom: A														
	<b>Pump 3</b>	Phase <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 15A <input type="checkbox"/> <b>75A</b> <input type="checkbox"/> 150A <input type="checkbox"/> 300A <input type="checkbox"/> Custom: A														
	<b>Pump 4</b>	Phase <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 15A <input type="checkbox"/> <b>75A</b> <input type="checkbox"/> 150A <input type="checkbox"/> 300A <input type="checkbox"/> Custom: A														
	<b>4-20 mA Out - Flow</b>	<input type="checkbox"/> <b>Not used</b> <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow <input type="checkbox"/> Generic Flow														
	<b>Relay Out 1</b>	<input type="checkbox"/> Not used <input type="checkbox"/> Alarm <input type="checkbox"/> <b>Modem</b> <input type="checkbox"/> Remote <input type="checkbox"/> Generic Vol. <input type="checkbox"/> Vol. In <input type="checkbox"/> Vol. Out														
	<b>Relay Out 2</b>	<input type="checkbox"/> Not used <input type="checkbox"/> Alarm <input type="checkbox"/> Modem <input type="checkbox"/> Remote <input type="checkbox"/> Generic Vol. <input type="checkbox"/> Vol. In <input type="checkbox"/> Vol. Out														
	<b>Level (Analog Input)</b>	<input type="checkbox"/> <b>Not used</b> <input type="checkbox"/> <b>Level</b> <input type="checkbox"/> Generic Flow <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow <input type="checkbox"/> Pressure Tap <input type="checkbox"/> Pump In Pressure <input type="checkbox"/> Pump Out Press. Analog Input <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 Model: Range: <input type="checkbox"/> <b>4-20mA</b> <input type="checkbox"/> 0-5V <input type="checkbox"/> 0-10V <input type="checkbox"/> 0-24V <input type="checkbox"/> Rev.														
	<b>Pressure (Analog Input)</b>	<input type="checkbox"/> Not used <input type="checkbox"/> Level <input type="checkbox"/> Generic Flow <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow <input type="checkbox"/> Pressure Tap <input type="checkbox"/> Pump In Pressure <input type="checkbox"/> <b>Pump Out Press.</b> Analog Input <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 Model: Range: <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5V <input type="checkbox"/> 0-10V <input type="checkbox"/> 0-24V <input type="checkbox"/> Rev.														
	<b>Rain (Digital Input)</b>	<input type="checkbox"/> Not used <input type="checkbox"/> <b>Rain</b> <input type="checkbox"/> Pulse input <input type="checkbox"/> <b>0.01"/.254mm</b> <input type="checkbox"/> 0.1mm <input type="checkbox"/> 0.2mm <input type="checkbox"/> Dig In <input type="checkbox"/> Intrusion <input type="checkbox"/> Overflow <input type="checkbox"/> Stop flow computation <input type="checkbox"/> NO <input type="checkbox"/> NC <input type="checkbox"/> Measured Flow <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow <input type="checkbox"/> I/Pulse														

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<b>Open Channel Flow</b>	Overflow Level	<input type="checkbox"/> m <input type="checkbox"/> ft	
	Computation method	<input type="checkbox"/> None <input type="checkbox"/> California pipe <input type="checkbox"/> Cipolletti <input type="checkbox"/> Contracted rectangular weir <input type="checkbox"/> Leopold-Largo <input type="checkbox"/> lookup table <input type="checkbox"/> Manning for open channel <input type="checkbox"/> <b>Manning partial full pipe</b> <input type="checkbox"/> Measured flow <input type="checkbox"/> Palmer-Bowlus <input type="checkbox"/> Parshall <input type="checkbox"/> polynomial flow formula <input type="checkbox"/> standard flow formula <input type="checkbox"/> Suppressed rectangular weir <input type="checkbox"/> V-notch (or triangular) weir	
	Parameters	Diameter: _____ A: _____ B: _____ C: _____ D: _____ Manning coefficient: _____ Width (bottom): _____ Slope: _____ Side or V angle: _____ Length: _____	
<b>Well Dimensions</b>	Units used for dimensions and levels were selected at the beginning of the form.		
			Dimensions: a: _____ b: _____
	Levels from <input type="checkbox"/> top <input type="checkbox"/> bottom		Volumes between levels at which pumps start
	Start of forth pump		Between third and forth
	Start of third pump		Between second and third
	Start of second pump		Between 1st and second
Start of first pump		Between all stop and 1st to start	
<b>Preset Alarms</b>	Presets	<input type="checkbox"/> <b>Abnormal pump sequence</b> <input type="checkbox"/> <b>AC power lost</b> <input type="checkbox"/> Ethernet communication problem <input type="checkbox"/> Inflow out of range <input type="checkbox"/> <b>Level drops w/o pump</b> <input type="checkbox"/> <b>Operation levels changed</b> <input type="checkbox"/> Outflow out of range <input type="checkbox"/> Pump capacity changed <input type="checkbox"/> <b>Short cycle</b> <input type="checkbox"/> <b>Steady level</b>	
	Options	<input type="checkbox"/> <b>Active</b> <input type="checkbox"/> <b>Display alert</b> <input type="checkbox"/> Critical <input type="checkbox"/> Read analog inputs faster <input type="checkbox"/> <b>Must acknowledge to stop</b> <input type="checkbox"/> Send to MaidMaps   Notify user at <input type="checkbox"/> start <input type="checkbox"/> end   Relays: <input type="checkbox"/> P1 <input type="checkbox"/> P2 <input type="checkbox"/> P3 <input type="checkbox"/> P4 <input type="checkbox"/> R1 <input type="checkbox"/> R2	
<b>New Alarm 1</b>	Type	<input type="checkbox"/> High Value <input type="checkbox"/> Low Value <input type="checkbox"/> Value in abnormal range   Name: _____	
	Event Type	<input type="checkbox"/> External battery voltage <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow 1 <input type="checkbox"/> Outflow 2 <input type="checkbox"/> Outflow 3 <input type="checkbox"/> Outflow 4 <input type="checkbox"/> Current 1 <input type="checkbox"/> Current 2 <input type="checkbox"/> Current 3 <input type="checkbox"/> Current 4 <input type="checkbox"/> Rain <input type="checkbox"/> Temperature <input type="checkbox"/> Total Outflow	
	Thresholds between:	And:	Delays Initial: HH:MM:SS   Final: HH:MM:SS
	Options	<input type="checkbox"/> <b>Active</b> <input type="checkbox"/> <b>Display alert</b> <input type="checkbox"/> Critical <input type="checkbox"/> Read analog inputs faster <input type="checkbox"/> <b>Must acknowledge to stop</b> <input type="checkbox"/> Send to MaidMaps   Notify user at <input type="checkbox"/> start <input type="checkbox"/> end   Relays: <input type="checkbox"/> P1 <input type="checkbox"/> P2 <input type="checkbox"/> P3 <input type="checkbox"/> P4 <input type="checkbox"/> R1 <input type="checkbox"/> R2	
<b>New Alarm 2</b>	Type	<input type="checkbox"/> High Value <input type="checkbox"/> Low Value <input type="checkbox"/> Value in abnormal range   Name: _____	
	Event Type	<input type="checkbox"/> External battery voltage <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow 1 <input type="checkbox"/> Outflow 2 <input type="checkbox"/> Outflow 3 <input type="checkbox"/> Outflow 4 <input type="checkbox"/> Current 1 <input type="checkbox"/> Current 2 <input type="checkbox"/> Current 3 <input type="checkbox"/> Current 4 <input type="checkbox"/> Rain <input type="checkbox"/> Temperature <input type="checkbox"/> Total Outflow	
	Thresholds between:	And:	Delays Initial: HH:MM:SS   Final: HH:MM:SS
	Options	<input type="checkbox"/> <b>Active</b> <input type="checkbox"/> <b>Display alert</b> <input type="checkbox"/> Critical <input type="checkbox"/> Read analog inputs faster <input type="checkbox"/> <b>Must acknowledge to stop</b> <input type="checkbox"/> Send to MaidMaps   Notify user at <input type="checkbox"/> start <input type="checkbox"/> end   Relays: <input type="checkbox"/> P1 <input type="checkbox"/> P2 <input type="checkbox"/> P3 <input type="checkbox"/> P4 <input type="checkbox"/> R1 <input type="checkbox"/> R2	
<b>New Alarm 3</b>	Type	<input type="checkbox"/> High Value <input type="checkbox"/> Low Value <input type="checkbox"/> Value in abnormal range   Name: _____	
	Event Type	<input type="checkbox"/> External battery voltage <input type="checkbox"/> Inflow <input type="checkbox"/> Outflow 1 <input type="checkbox"/> Outflow 2 <input type="checkbox"/> Outflow 3 <input type="checkbox"/> Outflow 4 <input type="checkbox"/> Current 1 <input type="checkbox"/> Current 2 <input type="checkbox"/> Current 3 <input type="checkbox"/> Current 4 <input type="checkbox"/> Rain <input type="checkbox"/> Temperature <input type="checkbox"/> Total Outflow	
	Thresholds between:	And:	Delays Initial: HH:MM:SS   Final: HH:MM:SS
	Options	<input type="checkbox"/> <b>Active</b> <input type="checkbox"/> <b>Display alert</b> <input type="checkbox"/> Critical <input type="checkbox"/> Read analog inputs faster <input type="checkbox"/> <b>Must acknowledge to stop</b> <input type="checkbox"/> Send to MaidMaps   Notify user at <input type="checkbox"/> start <input type="checkbox"/> end   Relays: <input type="checkbox"/> P1 <input type="checkbox"/> P2 <input type="checkbox"/> P3 <input type="checkbox"/> P4 <input type="checkbox"/> R1 <input type="checkbox"/> R2	
<b>MaidMaps</b>	Send MM data every	<input type="checkbox"/> Real Time <input type="checkbox"/> 1m <input type="checkbox"/> 2m <input type="checkbox"/> 5m <input type="checkbox"/> 10m <input type="checkbox"/> 15m <input type="checkbox"/> 30m <input type="checkbox"/> 1h <input type="checkbox"/> 3h <input type="checkbox"/> 6h <input type="checkbox"/> 12h <input type="checkbox"/> 1d	
	Sent data file every	<input type="checkbox"/> 15m <input type="checkbox"/> 30m <input type="checkbox"/> 1h <input type="checkbox"/> 3h <input type="checkbox"/> 6h <input type="checkbox"/> 12h <input type="checkbox"/> 1d <input type="checkbox"/> 2d <input type="checkbox"/> 4d <input type="checkbox"/> 1w <input type="checkbox"/> 2w <input type="checkbox"/> 1m	

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