

Do you want to add automation, monitoring or remote control functionalities to your facility but don't have direct access to the electricity network? We have the solution: The off-grid valve drive system

WPM WIRELESS POWER MASTER



Do you want to add automation, monitoring or remote control functionalities to your facility but don't have direct access to the electricity network?



To this day, providing these functions in conventional facilities still involves signifi cant expenditure in terms of personnel and time. Thanks to the WPM grid-independent valve drive system, you can now conveniently monitor, confi gure and control your facility from any location and with fewer personnel.

Possible areas of application

- Storm water storage basins
- Retaining weirs
- Pumping stations
- Wastewater treatment plants
- Flood control
- Water pollution control

Eliminate your dependence on the power grid. Choose where to base your process control system. WPM is the solution.

WPM is an autonomous valve system that operates independ of public power and informatio networks.

WPM is a location-independent valve remote control system to incorporates remote monitoring functionalities.

WPM generates its own energy from photovoltaic cells and/or wind power.

WPM guarantees permanet monitoring of your facilities wh also providing your control roo access to basic functions at al times.

The valves used in fl ood control systems, storm water storage basins or long-distance pipelines are increasingly automated. The aim is to allow remote operation of these facilities from a control room and to ensure that information regarding the current status of the valves is constantly available. In areas where connection to the public energy net is available, this involves signifi cant excavation and connection costs.





drive	But with WIRELESS POWER MASTER,
dently	you can implement power supply,
on	remote control and status information
	functionalities without incurring the
	associated connection costs.
nt	
:hat	For safty reasons, permanent
ng	monitoring of these facilities and
	constant access from control room
	to the facilities must be guaranteed.
gy	Thanks to the intelligent sensor
r	system, you can conveniently monitor,
	confi gure and control your facility
	from any location and with fewer
	personnel. Permanet data storage
hile	functions offer security against data
om with	loss.
II	
	All physical circumstances can be
	monitored remotely, thus ensuring
	that the facility reacts as required.
	You determine which statuses are
re	monitored, for example, the rate of
	fl ow, the fi ll level or the degree of
1	mineral oil contamination.
0	
	In addition, the WPM system is capable
	of self-monitoring. All system data
e no	such as temperature and voltage are
twork	constantly monitored and entered into
t	each report log.



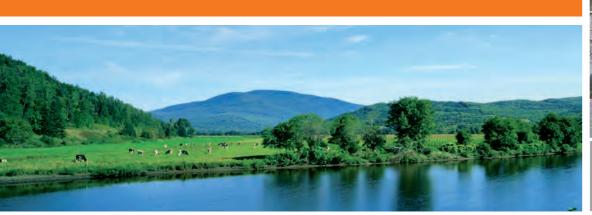
Enhanced performance and reduced **COStS**

The WPM system eliminates expensive excavation, connection and energy supply costs.

Even if you have to install only 100 meters of a power supply cable it will pay off to purchase the WPM.

Don´t hesitate. Ask for a cost comparison today!





Costly and time-co

Environmentally friendly energy generation

Powerful photovoltaic modules and / or wind power guarantee your essential supply of energy even if you are located a long distance from the power grid. WPM converts the sun's energy into the electric current to power your drive system.

The energy required is generated by a solar panel or a wind generator and stored for long periodes in high-performance batteries. This stored energy will be converted on demand to 230 V three-phase alternating current to power the valve drive system.

This allows the use of standard electric drive systems. An effi cient energy management function in the WPM controls the energy available to your best advantage. You can rest assured that ample reservers of power are available at all times for your critical applications.

money when monitoring your valves.



Let WPM monitor and control your valves

WPM monitors itself around the clock.

If an event occurs, the WPM immediately executes a counteractive routine. An event is simply an anticipated status that is specified by you. Examples include a level that may have been exceeded or contamination of a medium. This triggering event and the subsequent reaction to it are specified by you.

Keep tabs on your facility around the clock.

You can check your WPM via SMS sent from your mobile phone. The current status appears on your screen. You can also use your mobile phone to execute the basic WPM functions. In the BASIC version, you can check your facility on-site later on.

WPM monitors your facility remotely via SMS.

If an event predetermined by you should occur, a message is sent by e-mail or SMS to an e-mail adress previously specifi ed. Alternatively, a SMS can be sent to a specifi c mobile phone number.



WPM monitors and controls your facility via the Internet. From any available Internet connection, you can view the current data for the WPM either in graphical or tabular form. You can also click on a button to access the remote control functions for your facility.

Any questions? We would 🅢 +49 911-46254-0 be delighted to help.

WPM - BASIC

Protects your facility by providing permanent monitoring and an automated response to any distrubances detected by the facility. Ideal for use in storm warte storage basins.

WPM - COMFORT

If necessary, you can even monitor your facility via SMS. Your WPM can be relied on to inform you of any disturbances, wherever you happen to be.

WPM – PREMIUM

You can avail of useful aids such as sensors and switches to monitor your facility. Internet connectivity provides you with data visualisation options - making sure that the current facility status and all performance data is always at your fingertips.



Tailored to your requirements.

	WPM	WPM	WPM	
	BASIC	COMFORT	PREMIUM	
Automatically monitors your facility	\checkmark	\checkmark	\checkmark	Power generation
Automatically controls your system acc. to predetermined protection routines	\checkmark	\checkmark	\checkmark	Control
Protects your area of responsibility and saves costs	\checkmark	\checkmark	\checkmark	
Two programmable routines for responding to malfunctions	\checkmark	\checkmark	\checkmark	Datacommunication
On-site-control	✓	\checkmark	\checkmark	Data backup
Informs you via SMS or e-mail on the current status your facility		\checkmark	\checkmark	
Control the facility yourself via SMS		\checkmark	\checkmark	Sensor system
Includes four sensors for event monitoring		\checkmark	\checkmark	A L .
Informs up to four recipients via SMS or e-mail			 ✓ 	Alert messages
Remote control possible via Internet connection			\checkmark	Energy conversion
Includes up to six sensors for event monitoring			\checkmark	Drive system
On-screen graphical display of all current facility statuses			\checkmark	

Choose your WPM variant. You can upgrade your WPM at any time.

Environment protection

Security



Technical details of the WPM off-grid valve drive system.

Fully autonomous, available with photovoltaic and / or wind generator

Manual on-site or remote control of your facility

In GSM networks via SMS or e-mail

All registered events are automatically saved

Depending on specifi cation, sensors 4-20 mA or switches

To predetermined numbers e.g. control room, emergency call, police etc.

24 Volt / 3 x 230 Volt~

Three-phase alternating current 3 x 230 Volt~

Protected against unauthorized operation by double cut-off function

This system complies with current environmental protection standards



BÜSCH is ISO 9001 certified.



Member of "Deutschen Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V."



Member of "Deutschen Verein des Gas- und Wasserfaches e.V."



Member of "Warenzeichenverband Edelstahl Rostfrei e.V."



Member of "Hochwasser Kompetenz Centrum e.V."

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