MAGNETEK
MATERIAL HANDLING
ELECTROMOTIVE SYSTEMS

Electromotive Systems

IMPULSE®•Link 4.1 Wireless Diagnostic System (WDS)

Frequently Asked Questions (FAQ)

Q: How does the IMPULSE•Link 4.1 WDS (Wireless Diagnostic System) compare to past drive support tools, such as IMPULSE®•Link 4.0 and DataLogger?

A: The IMPULSE•Link 4.1 WDS (Wireless Diagnostic System) consists of both software (to program, monitor, and troubleshoot the drives) and the wireless hardware.

1. IMPULSE•Link 4.0 is being replaced with IMPULSE•Link 4.1 Basic.

2. IMPULSE•Link 4.1 Basic is software to program and monitor your IMPULSE drives, and includes a cable to hardwire to your PC (you must take your laptop up on the crane to the drives).

3. Handheld DataLogger is a microprocessor controlled, flash memory recording device that allows you to easily access the Run, Alarm, and Fault histories of the IMPULSE®•G+/VG+ Series 2 and Series 3 Drives. *The DataLogger function is built into IMPULSE•Link 4.1 WDS.*

4. The IMPULSE•Link 4.1 WDS software itself has some additional features beyond IMPULSE•Link 4.1 Basic such as:
   - DataLogger function
   - Improved communication profiles through the Wizard function, and more.

To learn more about all of these products, check out our IMPULSE® Drive Diagnostics Tools Family Brochure on our website at www.magnetekmh.com.

Q: What drives are supported by IMPULSE•Link 4.1 Basic and IMPULSE•Link 4.1 WDS?

A: The IMPULSE•Link 4.1 supports these drives:

	IMPULSE•Link 4.1	
	Basic	WDS
IMPULSE®•P3 Series 2	X	X*
IMPULSE®•G+/VG+ Series 2	X	X
IMPULSE®•G+/VG+ Series 3	X	X
IMPULSE G+ Mini	X	X
OmniPulse DDC	X	X

* IMPULSE•Link 4.1 WDS Datalogger function not supported

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Q: What are the PC requirements for installing and operating IMPULSE•Link 4.1 Basic and IMPULSE•Link 4.1WDS software?

A: The PC requirements are:

1. Pentium class or equivalent 500MHz processor or better
2. 256 MB RAM or better
3. Minimum of 100MB free hard-disk space available
4. Windows 98 SE operating system or better

Q: How many drives can be accessed via the IMPULSE•Link 4.1 WDS package?

A: We recommend 1 base unit per bay. Within that bay, you may have multiple remote units communicating to that one base unit. One remote unit is required per crane, and you may have multiple remote units communicating with 1 base unit. The total number of drives you can monitor with 1 base unit is 31. Typically you would not have more than 7 drives on any given crane, so 4 or more cranes within a bay can easily be monitored.

Q: How many drives can be accessed via the IMPULSE Link 4.1 Basic package?

A: The IMPULSE Link 4.1 Basic package requires that you connect your laptop computer to the IMPULSE drive via the RS-232 port, allowing you only to connect to one drive at a time.

Q: What are the distance capabilities on the IMPULSE Link 4.1 WDS system?

A: The remote units have been tested to communicate effectively up to 1,000 feet (line of sight) from the base unit. If using the standard Ethernet connection to your PC or company wide network, the modem can be a maximum of 320 feet from the PC or network hub.

Q: What is the purpose of the hardware key that comes with the IMPULSE Link 4.1 WDS software?

A: The hardware key was implemented for safety and security reasons. The software is rendered inoperable when the hardware key is not plugged into the USB port of the computer. Therefore, unauthorized personnel cannot make parameter changes to the drives via the IMPULSE Link 4.1 WDS software, which could cause unexpected, undesirable, or unsafe operation.

Q: What is the speed (baud rate) of communication for IMPULSE Link 4.1 WDS?

A: For IMPULSE•G+/VG+ Series 3 Drives, IMPULSE®•P3 Series 2 Drives, IMPULSE•G+ Mini Drives, and OmniPulse DDC, the baud rate can be set to 19.2 kbps. However, if there is an IMPULSE•G+/VG+ Series 2 Drive in the system, the baud rate must be set to 9600 bps for all devices.

Q: What is the default speed (baud rate) of communication for IMPULSE•Link 4.1 WDS?

A: 9600 bps.

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Q: Is additional hardware required for my drives to communicate on the network with IMPULSE•Link 4.1 WDS?

A: There may be additional hardware depending upon the model.

1. IMPULSE•G+ / VG+ Series 2 Drives require each drive have an additional (CMG5M) board for communication.
2. IMPULSE•G+ / VG+ Series 3 Drives do not require additional hardware.
3. IMPULSE•P3 Series 2 Drives do not require additional hardware.
4. IMPULSE•G+ Mini Drives do not require additional hardware
5. OmniPulse DDC does not require additional hardware, but must be wired using RS485 2-wire serial communications.

Q: Can the IMPULSE•Link 4.1 WDS be used to control the drives?

A: The IMPULSE•Link 4.1 WDS allows for programming, monitoring, and troubleshooting. For safety reasons, Magnetek does not allow the IMPULSE•Link 4.1 Wireless Diagnostic System to control the drives (i.e. provide a start/stop or any other inputs). If wireless 'control' is desired, Magnetek can provide a Telemotive Remote Control Radio product to meet your application needs.

Q: What discount schedule should I apply to price the IMPULSE•Link 4.1 WDS?

A: The Controls Components discount schedule should be used when quoting IMPULSE•Link 4.1 WDS.

Q: How do I price the IMPULSE•Link 4.1 WDS for my application?

A: The IMPULSE•Link 4.1 WDS Application Guide assists in determining how many base and remote units your application requires, as well as allows Magnetek to set up the communication profiles for your IMPULSE and OmniPulse drives. For pricing on a retrofit, you may visit the Magnetek Material Handling Online Price book at www2.magnetekmh.com. For pricing on a new control panel, contact your local Magnetek sales representative or the Magnetek Inside Sales Team at 800.288.8178 or 262.783.3500.

Q: Can I use the Material Handling Drive Trending Tool in a stand-alone application?

A: Yes, you can use the Material Handling Drive Trending Tool as a stand-alone software package. This software comes with the IMPULSE•Link 4.1 WDS and does not require the use of the USB key. Using this software in a stand-alone application requires the IMPULSE•Link 4.1 Basic Drive Communications Kit.

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