

Evolution

ISSUE 36

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A PUBLICATION OF MAGNETEK INDUSTRIAL CONTROLS GROUP

Introducing *telePendant*[™]:

Radio Control with the Feel of a Pendant

Magnetek continues to lead the way in providing innovative radio control systems for the Overhead Material Handling Industry. Magnetek Telemotive Industrial Controls is pleased to **introduce** the next generation in radio controls—the *telePendant*[™]. It's the most ergonomically designed, heavy-duty, and flexible pendant-style radio transmitter on the market today.



“Ten years ago Telemotive introduced a Pendant radio controlled transmitter,” says Jim McGuire, Radio Controls Product Manager. “It was well received in the marketplace, because operators liked the Pendant concept to control cranes. Today, operators want a smaller-size, lightweight, durable and flexible pendant-style transmitter. *telePendant* meets and exceeds these expectations. Ergonomics, durability, maximum flexibility and value are built right into every *telePendant*.”

Ergonomically Designed

telePendant was truly designed with the operator in mind. It's **50% smaller** by volume and **50% lighter** than its predecessor, and its ergonomically designed switches are easy to handle and control.

Durability Built Right In

Extensive testing has proven that *telePendant* is one of the toughest handheld transmitters on the market today. Its chemically resistant, specially blended polymer case withstands shocks. Maintenance-free, pendant-style pushbutton

switches are simple to operate, and are rated for one million plus operations in single-, two-, and three-speed designs. *telePendant* comes standard with two AA batteries. A longer life disposable lithium battery pack is optional.

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Reduce stress— soft start your AC motor



HRVS-DN Medium Voltage Soft Starter

After last year's successful launch of Magnetek's low voltage soft starters, we have once again formed a partnership with Solcon Industries to add a third generation, fiber optic-controlled medium voltage soft starter to our line. The new Magnetek-Solcon HRVS-DN Soft Starters smoothly accelerate and decelerate large AC motors, reducing inrush current, voltage sag, and mechanical shocks to motor and load. The added result is less stress on the power grid—an issue everyone is concerned about in light of the massive East Coast power outage! Magnetek's HRVS-DN is designed for use with standard asynchronous and synchronous motors. It's available from 60 to

Continued on page 2

Flexibility Enhances Performance

telePendant is the most ergonomically designed and durable radio transmitter of its kind on the marketplace today, and it's also the most flexible to use and program. It's **backward compatible** to older Telemotive receivers, so you can preserve your Series 10K investment!



Custom programming through a PDA

The telePendant's **electronic synthesizer** provides 29 different operating frequency channels—a marked improvement from the legacy

unit that used crystal controlled frequencies with only one channel of operation.

The telePendant comes from the factory **pre-programmed** to fit your specific application needs, or you can customize it in the field via your own Palm® PDA. A floppy disk with **PDA software comes free** with every telePendant transmitter. It gives you flexibility in terms of frequency selection, button configuration, and output mapping—all of this, without having to buy an expensive proprietary programmer. The PDA programmer allows you to program a unit on your terms. You can program on the fly on the production floor, or in the comfort of your office. In addition, the powerful PDA programming features allow you to load up to four different crane profiles into a single transmitter. **It's like having four transmitters in one!**

Once the unit is programmed you can archive the application files on your personal PC, and then retrieve and view information at your discretion. You can easily track all of your crane's specific configurations.

Embedded within each telePendant is a software history card that stores the manufacturing date, software revision level, and serial numbers. It even stores up to 10 service records so you can view the unit's service order number history.

Applications

telePendant is the ideal transmitter for overhead crane applications in such industries as aircraft, automotive, steel, utilities, construction and product finishing. You can also use telePendant to control non-crane applications such as industrial doors, furnaces, monorails and mobile vehicles.

telePendant truly represents the industry's evolving remote radio control needs, and we are confident that it will meet and exceed your expectations in radio controls.

If you would like additional information regarding telePendant and compatible receivers, contact our sales team today at 1-888-687-4400 or write #131 on your reply card to receive our brochure.



1000 Amps, 2.3 to 13.8 KV, in chassis or enclosed systems. Low voltage testing, a patent-pending wireless voltage measurement system, and a fiber-optic firing system are just a few of the features that make Magnetek's medium voltage soft starters safe, reliable, and efficient.

HRVS-DN comes standard with application specific software that allows you to start from a diesel generator, utilize your existing synchronous motor, and eliminate water hammer and over-pressure problems. Your motor performance will be

enhanced in a variety of industrial and marine & offshore applications, including:

Industrial

- Pumps and multi-pump sequencing
- Compressors & chillers
- Fans, blowers & centrifuges
- Conveyors, elevators & monorail systems
- Starting from a weak power supply (diesel generators; long supply lines)

Marine & Offshore

- Water & ballast pumps
- Refrigeration chillers & compressors
- Hydraulic pumps & power packs
- Thrusters
- Main propulsion motors
- Unique protection for corrosive environments
- Generator ready—auto frequency tracking



The HRVS-DN is Lloyds, DNV and ABS tested. For more information, please call the Magnetek Soft Starters sales department at 1-800-288-8178 or request brochure #130 on your reply card.



The International WorkBoat Show
NEW ORLEANS

*Visit **MAGNETEK** at booth 2604.*

Learn how our new line of Soft Starters provide efficiency and savings to *your* business.

New Hydraulic Foot Brake Software Available for IMPULSE® VG+ Drives



Electromotive Systems' new Hydraulic Footbrake Software for the IMPULSE® VG+ Series 2 Drive is the ideal solution for overhead bridge traveling cranes utilizing hydraulic brakes on the bridge or trolley.

Similar to an automobile brake, the foot pedal operates a master cylinder, which in turn transmits hydraulic pressure to engage the brake (or brakes) to control deceleration or stopping. The hydraulic pressure, and therefore

braking torque developed by the master cylinder, is proportional to the amount of force applied to the foot pedal. It's imperative that the control of the drive be coordinated with the brake, whether slowing to a stop, or reinitiating a run command. That is where Hydraulic Footbrake Software provides real value.

Since hydraulic footbrakes control the braking torque applied, no dynamic braking is provided by the variable frequency drive, when the operator moves the master switch to the neutral position. When the operator moves the master switch from the

neutral position, Hydraulic Footbrake Software allows the drive to smoothly regain control of the bridge motor without the potential for current or torque spikes.

Software Features and Benefits

- Foot pedal micro switch input (Optional)—software knows when the operator applies the hydraulic brake
- Variable torque reverse plugging (torque limited)—motor assisted braking
- Speed/torque limiting—programmable and torque limits
- Torque directly proportional to master switch position—gives operator full control
- Speed search—motor begins operating at the exact crane coasting speed for a smooth start
- Full crane control—start/stop speed is independent of acceleration/deceleration times

For even greater performance, Mondel Braketronic™ Controls can be applied with Hydraulic Footbrake Software to eliminate hydraulics, but retain foot pedal braking.

For details on employing this innovative hydraulic footbrake software, please contact your Magnetek Industrial Controls group representative at 1-800-288-8178, or write #132 on your reply card.

Did You Know?

Do you know which collector best suits your conductor bar application specifications?

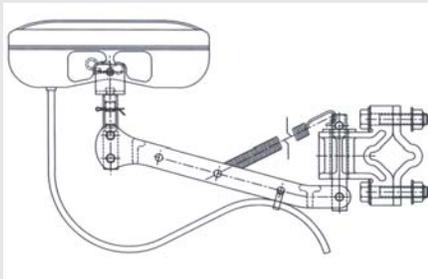
The smoother the transfer of electricity from the conductor bar to the mobile equipment, the better your crane will perform. Consult the following application guidelines to see if you need a single or pantograph arm collector for your specific application.

SINGLE ARM COLLECTOR

Single arm collectors are best suited for short, straight, well-installed runways on cranes with a Class "C" duty cycle or lower.

APPLICATIONS:

- Straight runways
- No expansion sections
- Travel speeds that do not exceed 250 feet per minute
- Suitable to provide power to contactor type controls
- Horizontal (standard) mount systems only
- Use with cranes up to and including Class "C"

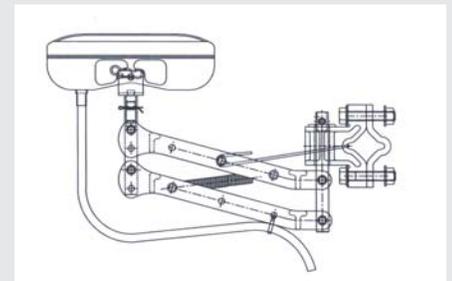


PANTOGRAPH ARM COLLECTOR

The pantograph arm design provides additional overall stability to the collector as well as balanced and consistent pressure to the collector shoe.

APPLICATIONS:

- Older runways or systems with extensions
- Systems with curves
- Systems with expansion sections
- Travel speeds that exceed 250 feet per minute
- Cranes with VFD controls
- Horizontal (standard) mount and vertical mount systems
- All crane class categories
- Discontinuous systems (systems with transfers)



For more information about Electromotive System's Electrification products please contact our Electrification Sales Department at 1-800-288-8178.

New Faces MAGNETEK

Jim McGuire

Jim McGuire has been named Radio Control Product Manager based in Glendale Heights, IL. He joined Telemotive in 1986 as a Field Service Engineer shortly after receiving a BSEE from DeVry University. His tenure at Telemotive has also included opportunities to support the company in Quality and Field Sales before taking his current role as the Product Manager in Radio Controls. His career path has allowed him to gain knowledge of the company from multiple viewpoints and has made him an experienced leader at Telemotive. Jim is married with two children and enjoys softball and coaching soccer in his spare time.



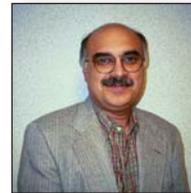
Scott Pastorius

Scott Pastorius has been named Product Manager for Mondel Brakes. Based in Pittsburgh, PA he has been selling and servicing Mondel brakes for over twenty years. In his current role, he divides his time between Engineering, Customer Service, and Sales. Scott continually works on product development and product line objectives, as well as creating strategic plans for market development. Scott is married with three children, Chris (19), Jason (17), Scott (15). He enjoys boating, hunting, and fishing. He also maintains a saltwater aquarium, specializing in Red Sea fish species.



Imran Ishaq

Magnetek Industrial Controls welcomes Imran Ishaq as the Director of Marketing, based in Menomonee Falls, WI. Imran is a graduate of Purdue University in Electrical Engineering and Electrical Technologies and has spent the last 24 years in sales, applications, marketing and management of industrial and motion controls, factory and machine automation, and power distribution. He is responsible for marketing and inside-sales support for Electromotive, Telemotive and Mondel Engineering products and systems. He and his wife have two children and live in Gurnee, IL. Imran enjoys close-up photography, amateur radio, RC Controls and traveling.



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B U S I N E S S R E S P O N S E C A R D

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Name _____

Title _____

Company _____

Address _____

City/ State/ Zip _____

Phone _____ Fax _____

e-mail _____

Write in number to receive additional information _____

I have an immediate interest or need. Please have an Application Engineer or Sales Representative contact me.

Check out Telemotive's New Web Site!



Magnetek's Telemotive Industrial Controls Division is pleased to announce the launch of the new Telemotive website. The site has a new look and navigation, not only signifying Telemotive's place in the Magnetek family of companies, but also making it easier to navigate and more informative. Future web site initiatives will include our TeleQuote configurator-to-order section. Visit www.telemotive.com today to check out our new look. If you have any comments on our new site, please email us at telemotiveinfo@magnetek.com.

NEW RELEASES!

from **Magnetek** Industrial Controls Group

- Telemotive Dealer Binder—late October
 - Electromotive Systems Pricebook CD—early November
 - Mondel Pricebook and Product Catalog—late November
- Email twiegand@magnetek.com for more information.



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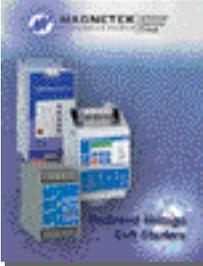
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Reference Files



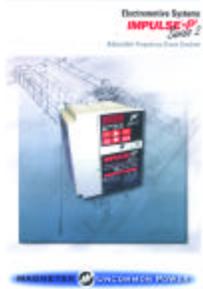
Magnetek Reduced Voltage Soft Starter
Magnetek offers a full line of reduced voltage electronic Soft Starters, designed to provide operators with unmatched soft starting and stopping for any AC induction motor. From our sophisticated RVS-DN digital unit, to the analog RVS-AX and the cost-effective, compact RVS-ST—we have a Soft Starter to meet every application.

Please write #127 on your reply card to receive a copy of this brochure.



telePilot™ Radio Controls
Magnetek's Telemotive Industrial Controls division brings you the most functional and operator-friendly membrane-style radio control product available today! Although it's packed with features, telePilot's ergonomic design is more slender and lightweight than most membrane transmitters. Yet this is the most durable hand-held transmitter on the market today.

Please write #128 on your reply card to receive a copy of this brochure.



IMPULSE® P³ Series 2 Drives Brochure
Magnetek's Electromotive Systems offers this 4-page color brochure. It details our compact, cost-effective IMPULSE® P³ Series 2 Adjustable Frequency Crane Control. Dual software offers you both simple programming, plus the versatility of many advanced control and safety features. Also included is a 2-page insert featuring technical specifications.

Please write #125 on your reply card to receive a copy of this brochure.



Braketronic® Controller
Magnetek's Mondel Engineering features the Braketronic Controller. With a Braketronic unit, single or multiple brakes can be proportionally controlled by foot pedal, master switch, radio control or selectively from either one. The Braketronic Controller is suitable for new applications, or for replacement of existing hydraulic systems, and provides fail-safe emergency braking.

Please write #129 on your reply card to receive a copy of this brochure.

Register On-Line for Electromotive Product Training @ www.electromotive.com

Technical Training Program for IMPULSE® G+/VG+ Series 2 and IMPULSE® P³ Series 2 Drives

January 13-15

This comprehensive 3-day training program starts with a review of basic drive theory and the "how to's" of selecting and applying adjustable frequency crane controls for overhead material handling applications. Programming information for the IMPULSE® P³ Series 2 and the IMPULSE® G+ Series 2 Drives in both V/F and open loop vector mode is also covered. The second half of this session covers introduction, theory, and programming of our closed loop flux vector crane control, IMPULSE® VG+ Series 2, and is ideal for anyone involved with the start-up and maintenance of flux vector motor controls. The training session concludes with a discussion of troubleshooting for all adjustable frequency crane controls.

PulseStar® Remote Crane Controls

January 16

Our one-day program details all the features and benefits of our PulseStar product line. You will learn about the application, use and troubleshooting of all the PulseStar models, and about the various technologies included in these advanced radio remote crane controls.

Electromotive Systems reserves the right to cancel training if a minimum number of registrations is not met three weeks prior to the session date. Given this possibility, if you plan to fly, please do not book your flight too early. In the event of a cancelled session, you will be rescheduled for another training session at a later date.

For more information, please visit our Web site at www.electromotive.com or call us at 1-800-288-8178. All training sessions take place at our suburban Milwaukee facility and are free of charge. However, you are responsible for your travel and lodging expenses. Space is limited and reserved on a first-come, first serve basis. Due to high demand, we do limit three people per company per training session.



UPCOMING TRAINING DATES

January 13-16
March 16-19
May 11-14
July 13-16



Provide the industry expertise, products and services to enhance the success of our customers.

Evolution is published by Magnetek. Questions and comments can be directed to Editor, Evolution, Magnetek, Post Office Box 13615, Milwaukee, WI 53213-9866 phone (262) 783-3500 www.electromotive.com

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