

STARTCO® Newsletter

Fall 2004

www.startco.ca

New Product Catalogue & CD

Startco has released a new version of its Product Catalogue and Product Information CD. The new Product Catalogue contains updated information describing Startco's line of protective relays, accessories, and custom products. The new catalogue also contains a description of the upcoming MPU-32 Motor Protection Unit. Detailed information describing the MPU-32 will be supplied closer to the launch date, scheduled in 2005. The Product Information CD contains technical specifications, manuals, CAD drawings, and software.

If you would like to receive copies for your staff and customers, please respond to info@startco.ca.



New Employees Join Startco Marketing Team

Startco Engineering Ltd. would like to extend a big welcome to its newest employees - Don Selkirk, Technical Sales, and Melanie Reeder, Marketing Assistant. Welcome to Startco!

Competitive Ground-Fault CT Compatibility

Startco has tested competitors' CT's and published Technical Information (T.I.) articles covering their compatibility with Startco relays. The T.I.'s provide information on correct connections, ground-fault setting ranges, and voltage-clamp requirements. Please contact Startco if you are retrofitting an older motor, feeder, or ground-fault relay, and the existing CT cannot be found in one of the T.I.'s available online.

It is recommended to verify CT and relay accuracy by primary injection through the CT window. The SE-400 is an excellent choice for such tests.

Ground-Fault Protection for the Slopes

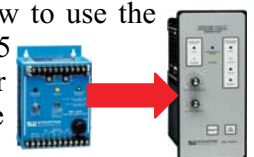
Ski hill operators have become increasingly proactive in upgrading their electrical systems, including adding ground-fault protection. Both the SE-601 DC Ground-Fault Monitor and the SE-704 Earth-



Leakage Monitor are in use on ski-lift systems. The SE-601 limits and detects dc leakage current. The SE-704 detects ground-fault current as low as 10 mA on ac systems. Both monitors are economical, compact, and easily installed on existing equipment.

SE-125 GF-GC Monitor Upgrade Guideline

Now available, Technical Information (T.I.) 6.4 provides information about replacing an SE-125 Ground-Fault Ground-Check Monitor with an SE-135 GF-GC Monitor. T.I. 6.4 has Features Comparison and Terminal Equivalent tables, and dimensional comparisons. Instructions on how to use the existing SE-125 current transformer with an SE-135 are included.



New Distributors

Startco would like to welcome its newest distributors:

- Advent Electric in Jessup, MD; Bridgeport, PA; and York, PA
- Mapi Comercial in Minas Gerais, Brazil
- Bibico in Hamilton, ON
- Davis & Spence Pty Ltd. in New South Wales, Australia
- JG Thomas & Associates in Western Australia

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30th Anniversary Story Contest

Over time, Startco has received many comments from people whose lives have been affected by Startco protective relays. Stories such as "The SE-105 saved my life when..." have been told to us in the past. As part of the upcoming celebration of Startco Engineering Ltd.'s 30th anniversary, you are invited to share your experience in a similar situation. The writers of the top ten submissions will be awarded a 30th Anniversary 128MB JumpDrive. Please submit your entry before January 31, 2005 to info@startco.ca.



Converting an Ungrounded Power Distribution System to a High-Resistance Grounded System

Locating ground faults on an ungrounded system can be extremely difficult. If the system maintains an intermittent ground fault, extensive damage can occur due to transient overvoltages. By using a zigzag transformer to create an artificial neutral and a neutral-grounding resistor to limit fault current, an ungrounded system can be converted to a high-resistance-grounded system. High-resistance grounding allows adequate fault current for selective ground-fault detection and coordination. High-resistance grounding eliminates transient overvoltages. Continued operation with one ground fault on a high-resistance grounded system may be allowed, depending on electrical codes.

Technical Information Updates

- 6.4 **NEW!** Replacing an SE-125 with an SE-135 Ground-Fault Ground-Check Monitor
- 9.9 **NEW!** RS-232 to RS-485 Converters for Use With Startco Products
- 12.10 MPU Drawout Retrofits
- 14.2 NGR Monitor Control Panel Checklist
- 14.3 SEL-PTO Ground Fault Panel Checklist
- 14.4 Portable Mine Power Center Checklist

New SIO-RTD

Startco is pleased to announce an updated SIO-RTD module. The new module features:

- Increased supply voltage range
- Improved measurement accuracy
- Reduced RTD sensor current
- 20 Ω RTD lead compensation
- Up to 63 SIO-RTD modules (504 inputs) on a Modbus® network

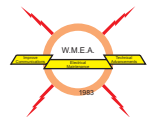
The SIO-RTD Module is a microprocessor-based data-acquisition system for measuring temperature and monitoring 4-20 mA analog-output devices in industrial environments.

Typical applications include monitoring temperature, pressure, vibration, fluid level, flow meters and just about any other instrumentation signal you can think of.



Upcoming Events

WMEA
Reno, NV
November 17-19, 2004



Power-Gen
Orlando, FL
November 30 - December 2, 2004



EGC
Bismarck, ND
January 25-27, 2005



Dixon Electric
Timmins, ON April 26, 2005
Sudbury, ON April 28, 2005



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