



Cathodic Protection Remote Monitoring CP DataLogger Software

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The FreeWave® Technologies, PC-based, CP DataLogger Software is used in conjunction with the FGRCF Cathodic Protection Remote Monitoring radio to remotely monitor and report CP operational values on pipelines, tanks, structures, and other underground facilities subject to environmental corrosion.

Designed to be compatible with off-the-shelf personal computers and other FreeWave® radio products, the CP DataLogger software is ideal for pipeline and tank companies wishing to optimize their investment in Cathodic Protection and lower their operating costs.

The CP DataLogger Software loads quickly on any laptop or desktop computer with an easy to use installation wizard. Software configuration is just as easy with most of the work already done.

Features:

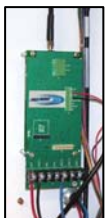
- Remotely monitor, set alarms, email, and print reports for:
 - Rectifier Input Power Status
 - Rectifier Power Interruption
 - Rectifier Output Voltage
 - Rectifier Output Shunt Voltage
 - Pipe-to-Soil Potential Test Points
 - Automated Rectifier Interruption & Potentials Measurement
 - Critical Bonds
 - Interference Points
- Installation Wizard auto loads within seconds
- Delivered pre-configured for CP Monitoring only
- Offers no recurring monthly fees, annual licensing or maintenance fees
- Provides free polling; poll all you need at no additional cost
- Based on open protocol communications
- Ensures maximum network security behind the company firewall



**FGRCF
LineMarker
Test
Stations**



Wireless



**FGRCF Board
Level Radio**

#	CP (RM) Station ID Number	CP (RM) Station Description	Rectifier Input Power Status	Rectifier Current (Amps)	Rectifier Voltage (VDC)	Pipe-Soil Potential (mVDC)	CP (RM) Temp (°F)	CP (RM) Battery Voltage (VDC)	Discrete Output Control (SET)	Analog Input Value	CP (RM) Polling Status	Collect New Data	Comments
1	RCT-19-2884	Conduct 19 Dens LineMarker Test Station	n/a	n/a	n/a	71.6	12.73			0.01			
2	FTS-19-2884	Conduct 19 Pipe-to-soil North Extension	n/a	n/a	n/a								
3	FTS-19-2884	Conduct 19 Pipe-to-soil Airport Feed Line	n/a	n/a	n/a								
4	FTS-19-2884	Conduct 19 Pipe-to-soil Back Head Connect	n/a	n/a	n/a								
5	FTS-19-2884	Conduct 19 Pipe-to-soil Element Conduit	n/a	n/a	n/a								
6	FTS-19-2884	Conduct 19 Pipe-to-soil SPS Sales Line	n/a	n/a	n/a								
7	FTS-19-2884	Conduct 19 Pipe-to-soil RidgeLine Station	n/a	n/a	n/a								
8	FTS-19-2884	Conduct 19 Pipe-to-soil East Rutherford	n/a	n/a	n/a								
9	FTS-19-2884	Conduct 19 Pipe-to-soil Health South Feed	n/a	n/a	n/a								
10	FTS-19-2884	Conduct 19 Pipe-to-soil Kallberg Main Line	n/a	n/a	n/a								
11	FTS-19-2884	Conduct 19 Pipe-to-soil Flatiron Interference	n/a	n/a	n/a								
12	FTS-19-2884	Conduct 19 Pipe-to-soil Parker Road Feeder	n/a	n/a	n/a								
13	SCT-75-8998	#75 Pipe-to-soil LineMarker Test Station	On	0.22	0.22	73.4	12.16			0.01			
14	RCT-75-8998	#75 Main Line Pipe-to-soil Waring Trans	n/a	n/a	n/a								
15	RCT-75-8998	#75 Main Line Pipe-to-soil Kaling Cross Connect	n/a	n/a	n/a								
16	RCT-75-8998	#75 Main Line Pipe-to-soil Washington DC Main	n/a	n/a	n/a								
17	RCT-75-8998	#75 Main Line Pipe-to-soil TRAK Light Rail Cross	n/a	n/a	n/a								
18	RCT-75-8998	#75 Main Line Pipe-to-soil Cheyenne Gathering	n/a	n/a	n/a								
19	RCT-75-8998	#75 Main Line Pipe-to-soil Fort Durango City Gate	n/a	n/a	n/a								
20	RCT-75-8998	#75 Main Line Pipe-to-soil Mesquite Main Line	n/a	n/a	n/a								
21	RCT-75-8998	#75 Main Line Pipe-to-soil Cherokee Conduit	n/a	n/a	n/a								
22	RCT-75-8998	#75 Main Line Pipe-to-soil Frank Range East Loop	n/a	n/a	n/a								
23	RCT-75-8998	#75 Main Line Pipe-to-soil Golden Cross Tap	n/a	n/a	n/a								
24	RCT-75-8998	#75 Main Line Pipe-to-soil Lookout 8th Feed	n/a	n/a	n/a								
25	RCT-75-8998	#75 Main Line Pipe-to-soil 170 Check Station	n/a	n/a	n/a								

CP DataLogger Software

Cathodic Protection Remote Monitoring

CP DataLogger Software & Radio Specifications

CP DataLogger Software	
Software	1.5 MB of hard disk space
Software Executable	Self-executes with Installation Wizard
Computer System Requirements	Intel® Pentium® 4, Pentium M or Intel Centrino® 1.3 GHz (or compatible) processor Microsoft Windows® XP or newer 256 MB of RAM (512 MB recommended) Color Monitor recommended 1,024 x 768 monitor resolution recommended
FGR Cathodic Protection Remote Monitoring (FGRC) Radio (Refer to FGRC Data Sheet for detailed specifications)	
Wireless Comm Port Modem	FGR Series
Range, Line of Sight	60 miles with line of sight
Type	Frequency Hopping Spread Spectrum
Data Throughput	115.2 kilobytes per second
Error Detection	32 bit CRC, retransmit on error
Data Encryption	Dynamic Key Substitution
Data Interface	RS232/RS485/RS422
Modem Data Connector	Serial DB9, female locking data port
Antenna RF Connector	Type-N, threaded
Power Supply	6-30 VDC or 110 VAC power adaptor
Enclosure	500 gram waterproof (shown)



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FreeWave Radios Require Professional Installation. Specifications may change at any time without notice. ©2009 FreeWave Technologies, Inc.



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