

VILLAGE PRESIDENT
Seth Speiser

VILLAGE CLERK
Jerry Menard

VILLAGE TRUSTEES
Ray Matchett, Jr.
Steve Smith
Mike Blaies
Mathew Trout
Dean Pruett
Elizabeth Niebruegge

VILLAGE OF FREEBURG

FREEBURG MUNICIPAL CENTER
14 SOUTHGATE CENTER, FREEBURG, IL 62243
PHONE: (618) 539-5545 • FAX: (618) 539-5590
Web Site: www.freeburg.com

VILLAGE ADMINISTRATOR
Tony Funderburg

VILLAGE TREASURER
Bryan A. Vogel

PUBLIC WORKS DIRECTOR
John Tolan

POLICE CHIEF
Stanley Donald

VILLAGE ATTORNEY
Weilmuenster Law Group, P.C

March 10, 2014

NOTICE

MEETING OF THE PUBLIC WORKS COMMITTEE Trash/Water/Sewer (Pruett/Matchett/Blaies)

A Public Works Committee Meeting of the Village of Freeburg will be held at the Municipal Center, Executive Board Room, on **Wednesday, March 12, 2014, at 6:15 p.m.**

PUBLIC WORKS COMMITTEE MEETING AGENDA

- I. Items To Be Reviewed
 - A. Old Business
 1. Approval of February 12, 2014 Minutes
 2. Sewer Project/Phase 1B
 3. Sewer issues
 4. Water Main Extension along Rentchler Road
 5. Cross connection control surveys
 6. Emergency call list for snow removal
 7. Water break on IDOT property
 8. Leaks in SAVE Water Tower
 9. Spring Clean Up
 - B. New Business
 1. Waste Management Request
 2. Itron Handheld Quotes
 - C. General Concerns
 - D. Public Participation
 - E. Adjourn

At said Committee Meeting, the Village Board of Trustees may vote on whether or not to hold an Executive Session to discuss potential litigation, [5 ILCS, 120/2 - (c)(11)]; the selection of a person to fill a public office [5 ILCS, 120/2 - (c) (3)] personnel [5 ILCS, 120/2 - (c) (1)]; or real estate transactions [5 ILCS, 120/2 - (c) (5)].

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PUBLIC WORKS COMMITTEE MEETING
Trash/Water/Sewer
(Pruett/Matchett/Blaies)
Wednesday, March 12, 2014 at 6:15 p.m.

The Public Works Committee Meeting was called to order at 6:15 p.m. on Wednesday, March 12, 2014, by Chairman Dean Pruett. Members present were Chairman Dean Pruett, Trustee Ray Matchett, Trustee Mike Blaies, Mayor Seth Speiser (left at 6:30 p.m.), Trustee Elizabeth Niebruegge, Trustee Steve Smith, Trustee Matt Trout, Public Works Director John Tolan and Office Manager Julie Polson. Guest present: Janet Baechle.

A. OLD BUSINESS:

1. Approval of February 12, 2014 minutes: Trustee Ray Matchett motioned to approve the February 12, 2014 minutes and Trustee Mike Blaies seconded the motion. All voting aye, the motion carried.
2. Sewer project: We have not heard anything from Fred Helms. Mayor Speiser will contact him.
3. Sewer issues: John said Mr. Fischer signed the agreement right away. He would like to be there when we demolish his existing system. John said we will start the work within the next month or so.
4. Water main extension along Rentchler Road: Seth said Mark Ehret is definitely moving forward with the project.
5. Cross connection control surveys: John is continuing to work on this project. There is \$2,000 in the budget for the inspections that will need to be done.
6. Emergency call list for snow removal: This has been transferred to Streets. Item can be taken off the agenda.
7. Water break on County property: John advised Electrico will be coming out Monday to fix the light. He will ask them to bill us and the County separately.
8. Leaks in SAVE water tower: John had a company come out and watched them fix the leaks on the tower. That company quoted a cost of \$87,697 to perform maintenance on the tank which includes cleaning the seams and applying a new fillet. John said if we have this company repair the tower, it would be down for 20 – 30 days and would require us to bring in a pressure tank. John would like to hold off on that and see if we can handle that ourselves.

Water/Sewer Committee Meeting
Wednesday, March 12, 2014
Page 1 of 2

Trustee Mike Blaies motioned to recommend to the full Board we purchase the Itron handheld unit and transponders at a cost of \$12,870 and Trustee Ray Matchett seconded the motion. All voting aye, the motion carried.

10. Water/Sewer service for O'Reillys: John said O'Reillys paid for the televising, cleaning and repair of the sewer line on their property. They will be the only one on that line. We are working on the water line now and will do a flow test there to see if they need to install a sprinkler system. There is a fire hydrant on their property. Tony said we should be getting the final plans next week.
11. Countryside Lane annexations: John said we met with the 3 of the residents last week and we definitely have 4 at the present time. If the other 2 residents don't want to annex, we can still move forward with this project. John gave them the estimated costs to annex and hook onto our water system. We will need to have an engineer draw up the plans so they can be submitted to EPA. John would like to do this project early fall after the completion of MFT.
12. Water/Sewer employee hire: John advised Don Gauch retired after 20 years of service with the Village. We have posted the job opening internally. He would like to advertise for a crew worker in next week's paper and the committee agreed.

B. NEW BUSINESS:

1. Wiegmann's and NPDES permit: John explained in years' past he had problems with Wiegmanns dumping into the sewer system which necessitated them having to submit samples to EPA. They have changed their process and there haven't been any problems for the past 6-7 years. Wiegmann's has requested to once again discharge to our plant. John stated EPA is on board with that. John said he is looking at some pretty high limits on the ammonia nitrogen and phosphorous, so he asked Wiegmann's to test for the next two months. He also said if we allow Wiegmann's to discharge into our system, they can do so slowly.

John said with the last big storm, the excess flow clarified quit pumping and he found that the shaft broke off. He took it to Vandeventer and they quoted \$4700 to fix it and \$7900 for a new one. The fixed pump would be a rebuilt one and the committee agreed to have it fixed.

C. GENERAL CONCERNS: None.

D. PUBLIC PARTICIPATION: Janet commented the area by the Library was flooded and that we should drive around town and check out all the areas that flooded in the last storm because we shouldn't have any.

E. ADJOURN: Trustee Ray Matchett motioned to adjourn at 6:44 p.m. and Trustee Mike Blaies seconded the motion. All voting aye, the motion carried.


Julie Polson,
Office Manager

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Seth Speiser

VILLAGE CLERK
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PUBLIC WORKS COMMITTEE MEETING
Trash/Water/Sewer
(Pruett/Matchett/Blaies)
Wednesday, February 12, 2014 at 6:15 p.m.

The Public Works Committee Meeting was called to order at 6:17 p.m. on Wednesday, February 12, 2014, by Chairman Dean Pruett. Members present were Chairman Dean Pruett, Trustee Ray Matchett, Trustee Mike Blaies, Mayor Seth Speiser, Trustee Elizabeth Niebruegge, Trustee Steve Smith, Trustee Matt Trout, Public Works Director John Tolan, Village Administrator Tony Funderburg and Office Manager Julie Polson. Guest present: Janet Baechle.

A. OLD BUSINESS:

1. Approval of January 15, 2014 minutes: Trustee Ray Matchett motioned to approve the January 15, 2014 minutes with correction and Trustee Mike Blaies seconded the motion. All voting aye, the motion carried.
2. Sewer project: Village Administrator Tony Funderburg had a conversation with Fred Helms last week and has not heard back from him.
3. Sewer issues: John passed out a copy of his letter to Brian Eckert of the St. Clair County Health Dept. advising of our plan of action regarding Mr. Fischer's sewer. We are requesting a 90-day extension from the County to get this done. Tony and Attorney Manion are working on the Letter of Agreement that states the grinder pump system becomes his responsibility once the work is complete. Mayor Speiser said TWM has offered to pay \$1500 of this project and we will be paying about \$2500. This should have been dealt with in the SRTS project and wasn't.
4. Water main extension along Rentchler Road: Seth said Mark Ehret is definitely moving forward with the project.
5. Cross connection control surveys: John is continuing to work on this project.
6. Emergency call list for snow removal: John said Mayor Speiser brought this up in the last month's Street committee meeting. When the weather gets bad and we have our guys working on electrical or water issues, it leaves us short when it comes time for snow removal. It would be great to have a list of guys that we could call to handle the snow for us. Of course, we would ask our guys first to satisfy the union. Seth said the guys would be certified and have their CDL license.

7. Water break on County property: John stated we repaired the culvert and need to go back and install concrete collars. We are going to send Jim Fields a bill for half of the cost.
8. Leaks in SAVE water tower: John advised the tower is leaking again due to the cold weather. He had a guy come out to look at the leaks. It will cost about \$3968 to fix them. He suggested we get the tower completely resealed. That should be done every ten years. The SAVE tower was built in 1998.

We have the Wastewater Project Loan Offer and Acceptance Contract that needs to be executed. That project consisted of the Cherry Tree Lane/High Street sewer, upgrades to the swimming pool and Pitts Street lift stations, upgrade of the lagoon, sludge removal and installation of rip rap for a loan amount of \$577,696.76 to be repaid in semi-annual payments of 18,648.07. Administrator Tony Funderburg confirmed the amounts due with Tim Pruett of Rhutasel.

Trustee Ray Matchett motioned to the full Board to authorize Mayor Speiser to execute the Loan Offer and Acceptance from the Illinois Environmental Protection Agency on Phase 1 of the Sewer Project and Trustee Mike Blaies seconded the motion. All voting aye, the motion carried.

B. NEW BUSINESS: John advised the spring cleanup has been scheduled for Friday, April 25th – Monday, April 28th to coincide with the Clean Sweep of Freeburg event hosted by the Community Development Committee. John will talk to Pickers to see if they can help during spring cleanup and will come up with a plan so that area doesn't get so congested. Tony advised Waste Management is requesting to change Wednesday's trash pickup day to Friday because they need that Wednesday in Smithton.

John attended the FSH meeting and they have hired Rhutasel to conduct a future plan study on Karch Road. They are also looking into having an emergency connect with Illinois American Water either in Freeburg or Smithton. FSH advised Freeburg's water consumption is down about 17,000,000 gallons which means our revenues will be down.

C. GENERAL CONCERNS: None.

D. PUBLIC PARTICIPATION: See Item #3 above. Janet thanked the guys for plowing the street.

E. ADJOURN: *Trustee Mike Blaies motioned to adjourn at 6:44 p.m. and Trustee Ray Matchett seconded the motion. All voting aye, the motion carried.*



Julie Polson,
Office Manager

ITEMS NOT INCLUDED:

- All preliminary site preparation, drainage, cleaning, or rinsing of existing tank and/or disposal of any tank contents
- Permits and/or related inspection fees of any kind from federal/state/local agencies.
- Chlorination
- Removal of any electrical systems attached to the tank structure and/or ladder system

SITE CONDITIONS/INSTALLATION ITEMS TO BE PROVIDED BY BUYER:

- BUYER shall provide free and clear access to the tank(s) interior and exterior for CADY. BUYER shall take full responsibility for cleaning the interior of the tank and disposal of all contents.
- BUYER is responsible to give at least four (4) weeks' notice prior to notification to CADY when the tank(s) is ready for repair. BUYER shall be subject to back charges (lost time, travel, subsistence of crews) if CADY arrives on site as scheduled and tank access, site preparation or other BUYER provided items are not ready causing CADY crew to sit idle or leave the site and return at a later date.
- The BUYER shall be responsible for reasonable access to this job site including but not limited to: traffic control, snow removal, and all maintenance, repair and restoration to access roads, temporary or permanent, if required.
- BUYER shall be responsible for at least two (2) days of airing out the tank prior to CADY arrival.

PROJECT TERMS:

VALIDITY: Price is firm for a period of thirty days

INSURANCE: Certificate of insurance provided.

PAYMENT: 20% Upon Order Initiation
20% Upon Mobilization Directive
60% Upon Completion
Net Due Day Of
Late payments shall be subject to interest charges of 2% per month on unpaid balances after 30 days

The opportunity to provide this quotation is appreciated and we look forward to working with you.

Yours Very Truly,



Stephanie Wetzell
Sales and Business Administrator
Cady Inc.

Julie Polson

From: Hannah, Daniel <DHannah@wm.com>
Sent: Monday, February 24, 2014 10:03 AM
To: Tony Funderburg (tfunderburg@freeburg.com); Julie Polson (jpolson@freeburg.com)
Cc: Williams, Darryl
Subject: Possible Route Change

Good morning Julie and Tony,

I hope everything is going well!

Our Route Manager Darryl Williams has asked me if you would be agreeable to change the trash day of the Wednesday route to Friday. It would improve our service as the routes are unbalanced currently.

Please let me know and have a great day!

Thank you, Dan

Dan Hannah
Municipal Manager
314-506-4743

Recycling is a good thing. Please recycle any printed emails.

Julie Polson

From: Scott Smith <ScottS@united-systems.com>
Sent: Friday, February 28, 2014 10:34 AM
To: jpolson@freeburg.com
Subject: Itron FC300SR Quote
Attachments: 101320SP-01 100W+ WaterCommMod.pdf; Freeburg Itron FC300 Quote 02-14.pdf; Freeburg Itron FC200 Trade-In Promotion PIT 02-14.pdf; FC300 Spec Sheet 100872SP-10.pdf

Hello Julie,

Attached are the FC300SR Quotes we discussed.

One quote if for the purchase of an FC300SR handheld, cradles and estimated services.

The other quote if for a 100W Itron Radio promotion. It is a good deal IF you plan on purchasing water radio modules this year anyway. If not, it isn't such a good idea.

Let me know if there are any questions.

Thank you,

Scott W. Smith

United Systems & Software, Inc.

Phone: 800.455.3293 ~ Mobile: 270.703.0697

www.united-systems.com



P.O. Box 547, 205 Ash Street, Benton, Kentucky 42025
 Phone: (270) 527-3293 • Toll-Free: 1-800-455-3293
 FAX: (270) 527-3132 • www.united-systems.com

United Systems & Software, Inc. is a software development firm that specializes in serving the information technology needs of utilities and local government. Founded in 1977, USS now serves over 500 customers within a nine-state region. As a distributor of Itron Automatic Meter Reading (AMR) technology, we offer complete AMR systems, radio transmitters & receivers, encoded meters, handheld & mobile computers, software, installation, training and on-going support.



Quotation For: Julie Polson
 Village of Freeburg
 14 Southgate Center
 Freeburg, IL 62243
 P:(618) 539-5705 E: jpolson@freeburg.com

February 28, 2014
 Prices valid 90 days

Qty	Product/Service Description	Unit Price	Ext Price
Itron Choiceconnect Meter Reading Solution:			
1	Itron FC300SR Windows CE-Based Handheld Unit for Meter Reading FC3SR Handheld, ERT Radio Transceiver, IP Cradle, Power adapter & cord. FC3-0004-001, MX9302PWRSPPLY, 90000A066CBLPWRAC 1-Year Itron Warranty, 2 nd + Year Maintenance \$473 ea.	\$ 5,015.00	\$ 5,015.00 ____
1	Recommended Handheld to PC Connection Equipment- IP connection. Includes 1-4 port network switch & 2-cat5 cables.	\$ 65.00	\$ 65.00 ____
1	Itron Technical Services: ESTIMATED: 1 hours remote setup & 2 hours onsite. Service \$125/hr, Travel \$65/hr & daily per diem \$150. (3@\$125, 6@\$65, 1@\$150) Actual Services rendered will be billed. Can do remotely to remove travel expenses.		\$ Stated Rates ____

NOTE: With Itron Annual Maintenance your MVRS software update is provided at no charge from Itron. We would recommend updating the MVRS software to version 8.4.1 prior to deployment of the new handheld. This can be done remotely by calling Itron Support at 1.877.487.6602. USS can do the update onsite at standard billable rates (add ~4 hours)

OPTIONAL UPGRADE:

1	Itron FC300SR with Internal GPS&WLAN (add \$185ea.) 1-Year Itron Warranty, 2 nd + Year Maintenance add \$27ea.	<u>Y / N</u>	\$ 185.00	\$ 185.00
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General: Prices do not include shipping and/or sales tax (if applicable). Endpoint orders not in box quantity are assessed a broken box fee of \$25. This quotation shall remain firm for 180 days from the quotation date, unless modified in writing by USS prior to USS acceptance. All related invoices shall be paid on a Net 10 Day basis. All services are to be delivered during USS' standard service window (8AM-4:30PM, Monday thru Friday, excluding USS Holidays).

Thank you,

Scott W Smith / Territory Manager

Scott Smith
United Systems & Software, Inc.
Office: 1.800.455.3293
Mobile: 1.270.703.0697



FC300

Ultra-Rugged Handheld Computer

In today's rapidly evolving utility landscape, energy and water providers need reliable, proven technology that helps them operate as efficiently as possible. Itron's latest handheld computer—designed specifically for the utility industry helps them do exactly that.. Built from the ground up and backed by Itron's 30 years of handheld experience, the Field Collector 300 (FC300) handheld computer offers fast and efficient production from the field with state-of-the-art mobile processing power. Able to withstand the rigors of continuous field work, the FC300 is built to military specifications for ultra-ruggedness. Communications flexibility is built into the FC300 by integrating multiple wireless communication technologies or fast ethernet. GPS and an imager/ barcode reader are additional features that set the FC300 apart.

When looking for a handheld computer that excels at maintenance and reading of all electric, gas and water meters as well as other tasks, the FC300 is truly an all- in-one utility automation tool.

SPECIFICATIONS

Operating System

- » Windows CE 5.0 Professional
- » Non-volatile storage of resident drivers, applications and settings

Processor

- » Marvel PXA320 @ 800 MHz

Memory

- » SD card expansion slot, 1 GB, standard
- » 128 MB SDRAM
- » 128 MB Flash

Display

- » 3.7" (93.98 mm) color QVGA
- » ¼ VGA 320 X 240 pixel LCD Color TFT capable of 16-bit color (65,536 colors)
- » Outdoorreadable,transflective

Touchscreen

- » Resistive touchscreen allows the use of finger or passive stylus (included)

Keypad

- » Backlit 51 key alphanumeric keypad, including navigation keys
- » Large primary numeric keys GPS
- » Built-in GPS receiver (optional)

Integrated SRead Radio

(Optional for North America)

- » 16 MHz wide receiver for receiving Itron ERTs and meters with RF technology
- » Advanced interference rejection technology for noisy RF environments
- » 80 channel receiver for improved reading performance

Integrated RF Master 433 RADIANT Radio

- » Extended range Future Ready radio
- » RADIANT protocol compatible
- » 433.82 MHz receiver for receiving Itron RADIANT ERTs and meters with RF Technology, Modulation: FSK
- » ERP < 10mW

Flashlight

- » Built-in LED flashlight located at the top of the handheld

Interfaces

- » USB host and client port
- » Serial port (Hirose connector for probing)
- » Powered RS-232 port
- » 10/100 Ethernet port

Batteries

- » Lithium Ion rechargeable battery pack (2500 mAh)
- » Internal clock backup battery (5 year life)
- » Back-up battery included for hot swapping of batteries
- » Full shift life with typical usage
- » Fast recovery backup power for data retention
- » Main battery low warning
- » Action power management (configurable)

Audio

- » Integrated speaker with adjustable volume control
- » Built-in microphone

Integrated Wireless Data Communications

- » GSM/GPRS wireless WAN (optional)
- » 802.11b/g wireless LAN (optional)
- » Bluetooth 2.0 + EDR Class 2 Radio (standard)

Feedback and Status Indicators

- » Built-in vibration device for warning notifications
- » Large system status LEDs and power status LEDs

Imager/Barcode Scanner

- » Built-in imager for linear and 2D barcode scanning
- » Monochrome imager for image capture

Case

- » Impact resistant plastic case
- » Rubberized over mold on all impact areas for added protection

Dimensions

- » Length: 9.94"(25.2cm)
- » Width: 3.86"(9.8cm)
- » Depth: 2.79"(7.1cm)

Weight

- » FC300 (base configuration): 31 oz (879 g) including batteries

Docking Stations

- » Single desk dock (ethernet, USB client, USB Host and serial connectivity, additional spare battery charger)
- » Multi-dock (5 unit)- ethernet connection only (daisy chain capability)

- » Vehicle dock - I/O connectors
- » Vehicle power charging adapter
- » Carry case for FC300 with SRead radio
- » Carry case for FC300 without SRead radio
- » Holster for FC300 with storage for optical probe

Environmental

- » Shock resistance exceeds Mil. Std. 810F
- » Vibration immunity to Mil. Std. 810F
- » Sealing for dust and water - IP 67 (with and without battery installed)
- » Operating temperature: -4°F to 122°F (-20°C to 50°C)
- » Storage temperature: -4°F to 158°F (-20°C to 70°C)
- » Humidity: 5 to 95% non-condensing
- » Drop: 6 feet (1829 mm) to concrete
- » Tumble: 2000 1m tumble test
- » Immunity: (EMC) EN 55204:1998
- » Emissions: (EMI) FCC Part 15, Subpart B, Class A; EN 55022, Class A (CISPR 22)
- » Safety: UL 60950-1, CSA C22.2 No. 60950-1, EN 60950, IEC 60950
- » Laser safety: 21 CFR 1040.10, IEC 60825-1
- » Battery safety: UL 2054, IEEE 1725
- » Radio: FCC Part 15 subpart C, IC RSS210, 102, EN 300 328, China SRRC, Singapore IDA, Malaysia SIRIM
- » Radio safety: FCC O.E.T. Bulletin 65 Industry Canada RSS 102, EN 50360

Warranty

- » 1 year comprehensive warranty
- » Annual maintenance program available



At Itron, we're dedicated to delivering end-to-end smart grid and smart distribution solutions to electric, gas and water utilities around the globe. Our company is the world's leading provider of smart metering, data collection and utility software systems, with over 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water.

To realize your smarter energy and water future, start here: www.itron.com

CORPORATE HEADQUARTERS

2111 N Molter Road
Liberty Lake, WA 99019
USA

Phone: 1.800.635.5461

Fax: 1.509.891.3355



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 FAX: (270) 527-3132 • www.united-systems.com

United Systems & Software, Inc. is a software development firm that specializes in serving the information technology needs of utilities and local government. Founded in 1977, USS now serves over 500 customers within a nine-state region. As a distributor of Itron Automatic Meter Reading (AMR) technology, we offer complete AMR systems, radio transmitters & receivers, encoded meters, handheld & mobile computers, software, installation, training and on-going support.



Quotation For: Julie Polson

Village of Freeburg
 14 Southgate Center
 Freeburg, IL 62243
 P:(618) 539-5705 E: jpolson@freeburg.com

February 28, 2014

Prices valid 180 days

HANDHELD PROMOTION:

This promotion offers a \$4,250 trade-in credit for a FC200 or G5 handled toward the purchase of an FC300SR handheld and 144 Itron 100W radio endpoints.
 Limit 3 handheld credits per customer.

Qty	Product/Service Description	Unit Price	Ext Price
Itron Choiceconnect Meter Reading Solution:			
Prices guaranteed for 180 days.			
1	Itron FC300SR Windows CE-Based Handheld Unit for Meter Reading -With GPS & WLAN FC3SR Handheld, GPS/WLAN, ERT Radio Transceiver, IP Cradle, Power adapter & cord. FC3-1004-001, MX9302PWRSPPLY, 90000A066CBLPWRAC 1-Year Itron Warranty, 2 nd + Year Maintenance \$500 ea.	\$ 5,200.00	\$ 5,200.00
144	Itron 100W Water Meter Endpoints Inline Connectors -Pit Model ERW-1300-202, List Price: \$135 Ea. (Box quantity: 24) Compatible with Neptune/Hersey/Badger/Sensus/Amco/Itron encoder registers.	\$ 72.50	\$ 10,440.00
1	Recommended Handheld to PC Connection Equipment- IP connection. Includes 1-4 port network switch & 2-cat5 cables.	\$ 65.00	\$ 65.00
1	Itron Technical Services: ESTIMATED: 1 hours remote setup & 6 hours onsite. Service \$125/hr, Travel \$65/hr & daily per diem \$150. (7@\$125, 6@\$65, 1@\$150) Actual Services rendered will be billed.	Estimated	\$ 1,415.00
TOTAL AS PROPOSED ABOVE (per handheld trade in, limit 3):			\$17,120.00
Less FC200/G5 Upgrade to FC300SR Promotion: \$4,250 credit ea- Limit 3			-4,250.00 †
TOTAL:			\$12,870.00

NOTE: With Itron Annual Maintenance your MVRS software update is provided at no charge from Itron. We would recommend updating the MVRS software to version 8.4.1 prior to deployment of the new handheld. This can be done remotely by calling Itron Support at 1.877.487.6602. USS can do the update onsite at standard billable rates (add ~4 hours)

† Handheld Trade-In Promotion Details:

- One (1) FC300SR with GPS, Cradle & Cables is provided @ \$950 with purchase of 6 boxes of 100W endpoints and G5/FC200 trade-in.
- Limit 3 trade-in's per customer.
- Customer will initially be billed for full amount. Credit to invoice will be applied upon return of G5/FC200 trade-in.
- Existing G5/FC200 handhelds must be returned within 45 days of receiving new FC300's.
- Ship trade-in's to: Itron Service Center, 12825 East Mirabeau Parkway, Suite 104, Spokane, WA 99216. Reference info will be provided by USS.

General: Prices do not include shipping and/or sales tax (if applicable). Endpoint orders not in box quantity are assessed a broken box fee of \$25. This quotation shall remain firm for 180 days from the quotation date, unless modified in writing by USS prior to USS acceptance. All related invoices shall be paid on a Net 10 Day basis. All services are to be delivered during USS' standard service window (8AM-4:30PM, Monday thru Friday, excluding USS Holidays).

Thank you,

Scott W. Smith / Territory Manager

Scott Smith
 United Systems & Software, Inc.
 Office: 1.800.455.3293
 Mobile: 1.270.703.0697



100W+

Water Communication Module

The 100W+ communication module is the latest addition to Itron's portfolio of advanced metering devices for water utilities. Featuring a compact design, industry-leading battery life and technology designed to adapt and grow with your business, the 100W+ module can help you streamline your operations and maximize your resources today and into the future.

The 100W+ communication module represents the fourth evolution in Itron's line of 100 series water communication modules. This latest release includes a new message called SCM+ with more information than previous generation messages. Additionally, the 100W+ offers industry leading capabilities in security, fixed network performance and improved meter consumption resolution to 9 dials (1/100th gallon).

» 100W+ communication modules are available in two housing designs, supporting both water pit and remote installations. They are identified as follows:

- » 100W+ is to be utilized with encoder registers in a pit environment
- » 100WP+ for pulser registers in a pit environment
- » 100W-R+ for encoder registers in remote applications
- » 100WP-R+ for with pulser registers in remote applications

These communication modules offer advanced two-way meter data collection designed specifically for Itron collection systems using handheld, mobile, fixed network and hybrid solutions. 100W+ communication modules differentiate themselves from other devices on

the market by providing true two-way communications capabilities with walk-by, drive-by and fixed network collection systems. Engineered from the ground up to leverage the benefits of ChoiceConnect™ collection systems, 100W+ communication modules enable easy migration from mobile to fixed network operations as your business needs evolve. With Itron's complementary communications technology, fixed and mobile network systems can be deployed side-by-side in hybrid configurations to ensure maximum efficiency and reliability in both high and low-density meter populations.

SCM+

SCM+ is a new message for Itron's electric, gas and water endpoints. This message transmits more information than previous generation messages, including:

- All tampers and alarms (including extended tampers and low battery alarm)
- Up to 1/100th gallon resolution of water meters that support 9 dials

Itron Security Manager

The 100W+ offers optional enhanced security with the addition of authentication and encryption. In parallel to the 100W+ release, Itron released the Itron Security Manager (ISM) solution. ISM represents the initial launch of a new security application that will provide the cryptographic and key management services for Itron's Fixed Network, Field Deployment Manager (FDM) and Field Collection System (FCS) solutions. The ISM application, working in concert with these data collection systems will provide a new application layer of security. This enables authentication of commands and encryption of data communications from the reading applications to new 100 Series communication modules. These enhanced security services will provide added confidentiality, data integrity and availability that utilities require to secure their communications. Every 100W+ will ship with embedded security keys to support utilities current and future requirements for enhanced secure communications. To enable enhanced security, utilities will need Itron Security Manager v1.0, FDM Endpoint Tools Enhanced v3.3 and 100W+ security keys (part number SEC-0000-002).

GeoMode

In order to continually improve our fixed network performance, the 100W+ has added the GeoMode feature. GeoMode is a valuable tool used to read 100W+ communication modules that are installed in RF-unfriendly environment as well as modules installed on the fringe of network coverage. This tool will allow a 100W+ that is not being heard by the fixed network to transmit its NIM (Network Interval Message) via a neighboring 100W+ that has an established link to FN. GeoMode will not impact the 100W+ industry-leading battery performance. Using the GeoMode feature

requires Network Software v5.0. Modules in GeoMode may still be read by Itron handheld and mobile systems.

Water Meter Compatibility

The 100W+ communication module is compatible with water meters from all major manufacturers such as Badger, Elster AMCO, Hersey, Master Meter, Neptune and Sensus, enabling water utilities to consolidate all their water meters under a single reading system. Powered by proven, advanced lithium battery technology; the module is designed for 20 years of battery life in both fixed network and mobile modes.

Data Logging

The 100W+ stores 40 days of hourly consumption information, which can be collected by the fixed network system to leverage real time data collection or can be read by mobile or handheld systems. This data is presented in four basic use cases:

- A reading from any hour within the last 40 days
- A set of 24 consecutive hourly readings
- A set of 40 daily readings
- A set of 40 days of hourly interval data are available even in mobile mode

Superior Performance

The 100W+ communication module utilizes 120 radio channels in fixed network and 50 radio channels in mobile and handheld modes, randomly selecting one channel for each data message. Itron's unique multi-channel solutions maximize the use of all available bandwidth, allowing more data to flow through the network and enabling faster drive-by speeds. The 100W+ will transmit the fixed network consumption message at peak radiated power greater than 1Watt.

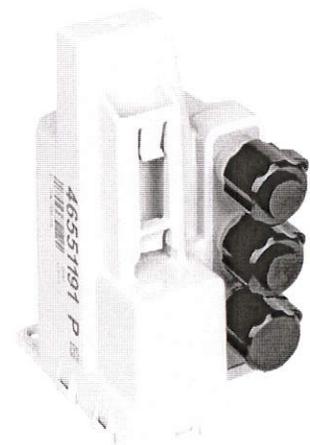
Reliability

100W+ communication modules feature a circuit assembly and battery pack that are fully encapsulated within a specially-formulated potting material to completely protect internal components from water, contaminants, corrosion, rough handling and temperature cycling. With their straight forward, rugged design, 100W+ communication modules use substantially

fewer components than most competing products, resulting in greater reliability. The advanced, integrated antenna operates effectively in a wide range of meter box installations. The 100W+ offers peace of mind with a 20 year limited warranty.

Lower Cost of Ownership

100W+ communication modules feature industry-leading battery life, ensuring your meter data collection investment achieves substantially better financial returns than competing products with batteries that typically last only ten or twelve years. When one considers the advancements in leak, reverse flow (absolute encoder version only) and tamper detection, 100W+ communication modules necessitate fewer field investigations and substantially lower expenditures for installation, meter reading, customer service and field service. And with a low battery alarm, these modules help utilities better plan and manage the replacement of units in the field.



100W+



100W-R

Leak Management

Water loss management is critical to any water utility's success. 100 Series modules can be paired with Itron's advanced acoustic Leak Sensor. The Leak Sensor collects and analyzes changes in pipe acoustics that indicate probable leaks in the distribution system environment to detect both new and pre-existing leaks automatically. Leak Sensor technology, coupled with the module's internal customer-side leak detection algorithm and the option to use data from groups of 100W+ communication modules (District Metering) provide the utility with a highly accurate picture of the overall health of the water distribution system.

Leak Data

The 100 Series collects and stores the data from the Leak Sensor. The Leak Sensor samples the pipe conditions every 22.5 minutes or 64 times daily. The 100 Series stores the 8 quietest analyses daily and will hold 20 days worth of data. This data is picked up during normal meter reading operations and seamlessly transfers the data to our hosted web based solution (mlogonline).

100W+ COMMUNICATION MODULE SPECIFICATIONS

The 100W+ can be identified by new part number ERW-1300-3XX and units have a + signifier.

Functional

- ✧ Power Source: Two "A" cell lithium batteries warranted for 20 years
- ✧ Operating temperature: -
 - -40°C to +70°C for remote applications
 - -20°C to +60°C for pit applications
- ✧ Storage temperature: -40°C to + 75°C for maximum of 1,000 hours
- ✧ Humidity limits: 0 to 100% (submersible)
- ✧ Maximum register cable dimension: 300 feet with Itron-approved cable and splice connectors
- ✧ Meter compatibility: See Water Module Meter Compatibility Guide (PUB-0063-002)

Transmission Parameters

- ✧ Data message: Multiple RF channel transmissions of meter register value, cut cable and or communication error tamper(s), reverse flow (encoder version only) and system leak status messages, as well as low battery indicator is transmitted every ten seconds in mobile mode. All this information and last 7 time synchronized consumption intervals is transmitted every six minutes along with a contingency SCM+ (Standard Consumption Message) every 60 seconds in fixed network mode
- ✧ Transmitter frequencies:
 - 908 - 924MHz (Standard Power) in mobile mode
 - 923 – 926.8MHz (High Power) in fixed network mode
- ✧ Operates in bubble-up mode and does not require a license from the Federal Communications Commission (FCC) or Industry Canada (IC)
 - FCC Part 15.247
 - Industry Canada RSS-210

Approved Network Reading Systems

- ✧ Network system: Itron Fixed Network 100 Collectors and Repeaters (CCU 100 and Repeater 100) which offer full two-way communication capability.
- ✧ ChoiceConnect Fixed Network software v4.1 or higher
- ✧ If using enhanced security, Itron Security Manager (ISM) v1.0 or higher, is also required

Approved Mobile Reading Systems for SCM+ alone

- ✧ Mobile data collection hardware when used with software listed below:
 - Any MC3 radio with Mobile Collection Software 3.4 or higher
 - Any MC Lite radio
 - Any FC200 handheld computer with SRead radio
 - Any FC300 handheld computer with SRead radio
- ✧ Mobile data collection software:
 - Multi-Vendor Reading System (MV-RS) v8.3 or higher
 - Field Collection System (FCS) v2.4 or higher

Approved Mobile Reading Systems for Data Logging Reads

- ✧ Mobile data collection hardware when used with software listed below:
 - Datalogging capable MC3 radios with Mobile Collection Software 3.4 or higher
 - Datalogging capable MC Lite radios
 - FC200 handheld computers with Datalogging capable SRead radio
 - Any FC300 handheld computer with SRead radio
- ✧ Mobile data collection software:
 - Multi-Vendor Reading System (MV-RS) v8.3 or higher
 - Field Collection System (FCS) v2.5 or higher

Approved Mobile Reading Systems for Enhanced Security Reads

- ✧ Mobile data collection hardware when used with software listed below:
 - Datalogging capable MC3 radios with Mobile Collection Software 3.5 or higher
 - Datalogging capable MC Lite radios
 - FC200 handheld computers with Datalogging capable SRead radio
 - Any FC300 handheld computer with SRead radio
- ✧ Mobile data collection software:
 - Field Collection System (FCS) v2.5 or higher
 - Itron Security Manager (ISM) v1.0 or higher

Approved Programming Systems

- ✧ FC200SR handheld computers
- ✧ FC300SR handheld computers
- ✧ 900 MHz Belt Clip Radios
- ✧ Field Deployment Manager (FDM) v3.3 or higher
- ✧ If using enhanced security, Itron Security Manager (ISM) v1.0 or higher, is also required

The 100W encoder version does not require any programming—it automatically detects the register type within one hour of being connected.

