

**BILL NO. S-14-05-26**

**SPECIAL ORDINANCE NO. S-\_\_\_\_\_**

AN ORDINANCE approving PURCHASE AGREEMENT FOR SENSUS ENDPOINT RADIO UNITS - W.O. #66360 between E.J. PRESCOTT, INC. and the City of Fort Wayne, Indiana, in connection with the Board of Public Works.

**NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:**

**SECTION 1.** That the PURCHASE AGREEMENT FOR SENSUS ENDPOINT RADIO UNITS - W.O. #66360 by and between E.J. PRESCOTT, INC. and the City of Fort Wayne, Indiana, in connection with the Board of Public Works, is hereby ratified, and affirmed and approved in all respects, respectfully for:

purchase of Sensus water meter radios for 2014 to be installed in the Aqua Indiana Utility southwest Fort Wayne acquisition area:

involving a total cost of TWO HUNDRED FORTY-THREE THOUSAND AND 00/100 DOLLARS - (\$243,000.00). A copy of said Contract is on file with the Office of the City Clerk and made available for public inspection, according to law.

**SECTION 2.** That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

\_\_\_\_\_  
Council Member

APPROVED AS TO FORM AND LEGALITY

\_\_\_\_\_  
Carol Helton, City Attorney

A PURCHASE AGREEMENT BETWEEN THE BOARD OF PUBLIC WORKS  
OF THE CITY OF FORT WAYNE, INDIANA, AND E.J. PRESCOTT,  
INCORPORATED FOR SENSUS ENDPOINT RADIO UNITS

Work Order Number: 66360

This contract is between the City of Fort Board of Public Works a Municipal Corporation, with address of 200 East Berry Street, Fort Wayne, Indiana, 46802 ("BOARD"), and E.J. Prescott, Incorporated, with address of 4620 Hillegas Road, Fort Wayne, Indiana 46818 ("EJP").

EJP does here by agree to provide BOARD with endpoint radio units as quoted in the attachment in 2014. EJP shall hold the price as quoted through December 31, 2014. **The quantities of endpoint radio units are an estimate of Fort Wayne's 2014 needs and are not guaranteed.**

EJP shall supply up to 2,500 Sensus endpoint radios of SmartPoint 510 M2 and 520 M2

Attachments:

- A. 2014 Sensus quote
- B. Sensus warranty
- C. Sensus product sheet
- D. Sensus sole source letter

APPROVED this 21<sup>st</sup> day of May, 2014.

BOARD OF PUBLIC WORKS

By: 

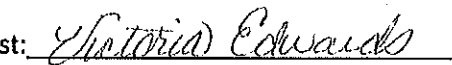
Robert Kennedy, Chair

By: 

Kumar Menon, Member

By: 

Mike Avila, Member

Attest: 

Victoria Edwards, Clerk

E.J. Prescott, Inc.

By:   
Jonathan D. York

  
TIMOTHY A BROWN

Date: 5/20/14

Attachment A

2014 Sensus quote

| Endpoint Radio Quote     |           |          |              |
|--------------------------|-----------|----------|--------------|
| Endpoint Radio Unit      | Unit Cost | Quantity | Cost         |
| Sensus SmartPoint 510 M2 | \$95.00   | 2000     | \$190,000.00 |
| Sensus SmartPoint 520 M2 | \$106.00  | 500      | \$53,000.00  |

|       |  |  |              |
|-------|--|--|--------------|
| Total |  |  | \$243,000.00 |
|-------|--|--|--------------|

Attachment B

Sensus warranty

# Sensus Limited Warranty

G-500 R18

## I. General Product Coverage

Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at: <http://sensus.com/TC/> ("Terms of Sale").

## II. SR II® and accuSTREAM™ 5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for five (5) years from the date of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

|                                       | New Meter Accuracy | Repair Meter Accuracy |
|---------------------------------------|--------------------|-----------------------|
| 5/8" SR II Meter and accuSTREAM Meter | 500,000 gallons    | 1,500,000 gallons     |
| 3/4" SR II Meter and accuSTREAM Meter | 750,000 gallons    | 2,250,000 gallons     |
| 1" SR II Meter and accuSTREAM Meter   | 1,000,000 gallons  | 3,000,000 gallons     |

## III. SR® 5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4" and 1" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

|               | Repair Meter Accuracy |
|---------------|-----------------------|
| 5/8" SR Meter | 1,500,000 gallons     |
| 3/4" SR Meter | 2,250,000 gallons     |
| 1" SR Meter   | 3,000,000 gallons     |

## IV. SR 1-1/2" & 2" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2" and 2" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

|                 | Repair Meter Accuracy |
|-----------------|-----------------------|
| 1-1/2" SR Meter | 5,000,000 gallons     |
| 2" SR Meter     | 8,000,000 gallons     |

## V. PMM® 5/8", 3/4", 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4", and 1" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

|          | Repair Meter Accuracy |
|----------|-----------------------|
| 5/8" PMM | 1,500,000 gallons     |
| 3/4" PMM | 2,000,000 gallons     |
| 1" PMM   | 3,000,000 gallons     |

## VI. PMM 1-1/2", 2" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2", and 2" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

|            | Repair Meter Accuracy |
|------------|-----------------------|
| 1-1/2" PMM | 5,000,000 gallons     |
| 2" PMM     | 8,000,000 gallons     |

## VII. iPERL™ Water Management Systems...

that register water flow are warranted to perform to the accuracy levels set forth in the iPERL Water Management System Data Sheet (IPL-110), available at [www.sensus.com](http://www.sensus.com).

com/iperl or by request from 1-800-METER-IT, for twenty (20) years from the date of Sensus shipment. The iPERL System warranty does not include the external housing.

## VIII. Maincase...

of the SR, SR II and PMM in both standard and low lead alloy meters are warranted to be free from defects in material and workmanship for twenty-five (25) years from the date of Sensus shipment. Composite and E-coated maincases will be free from defects in material and workmanship for fifteen (15) years from the date of Sensus shipment.

## IX. Sensus "W" Series Turbo Meters, OMNI™ Meters and Propeller Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment.

## X. Sensus accuMAG™ Meters...

are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

## XI. Sensus Registers...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

|                                                                    |          |
|--------------------------------------------------------------------|----------|
| 5/8" thru 2" SR, SR II, PMM, accuSTREAM Standard Registers         | 25 years |
| 5/8" thru 2" SR, SR II, PMM, accuSTREAM Encoder Registers          | 10 years |
| Electronic Communication Index (ECI)                               | 10 years |
| All HSPU, IMP Contactor, R.E.R. Elec. ROFI                         | 1 year   |
| Standard and Encoder Registers for: "W" Turbo and Propeller Meters | 1 year   |
| OMNI Register with Battery                                         | 10 years |

## XII. Sensus Electric Meters...

are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment. Spare parts and components are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment.

Repaired or refurbished equipment repaired by Sensus is warranted to be free from defects in material and workmanship for ninety (90) days from the date of Sensus shipment or for the time remaining on the original warranty period, whichever is longer.

## XIII. Batteries, iPERL System Components, AMR and FlexNet™ System AMI Interface Devices...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| Electronic TouchPads                                              | 10 years  |
| RadioRead® MXU (Model 505C, 510R or 520R) and Batteries           | 20 years* |
| Act-Pak® Instrumentation                                          | 1 year    |
| TouchRead® Coupler and AMR Equipment                              | 1 year    |
| FlexNet Water or Gas SmartPoint™ Modules and Batteries            | 20 years* |
| Hand Held Device                                                  | 1 year    |
| Vehicle Gateway Base Station                                      | 1 year    |
| FlexNet Base Station (including the Metro and M400 base stations) | 1 year    |
| Echo Transceiver                                                  | 1 year    |

## XIII. Batteries, iPERL System Components, AMR and FlexNet™ System AMI Interface Devices... (continued)

|                                                  |           |
|--------------------------------------------------|-----------|
| Remote Transceiver                               | 1 year    |
| IConA and FlexNet Electricity SmartPoint Module  | 1 year    |
| iPERL System Battery and iPERL System Components | 20 years* |
| Residential Electronic Register                  | 20 years* |

(continued)

**SENSUS**



# Sensus Limited Warranty

\*Sensus will repair or replace non-performing:

- RadioRead® MXU (Model 505C, 510R and 520R) and Batteries,
- FlexNet Water or Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to two firmware downloads during the life of the product) and batteries,
- Residential Electronic Register with hourly reads
- iPERL System Batteries, and/or the iPERL System flowtube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads at no cost for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

| Years | Replacement Price | Years | Replacement Price |
|-------|-------------------|-------|-------------------|
| 1-10  | 0%                | 16    | 55%               |
| 11    | 30%               | 17    | 60%               |
| 12    | 35%               | 18    | 65%               |
| 13    | 40%               | 19    | 70%               |
| 14    | 45%               | 20    | 75%               |
| 15    | 50%               | >20   | 100%              |

Note: Software supplied and licensed by Sensus is warranted according to the terms of the applicable software license agreement. Sensus warrants that network and monitoring services shall be performed in a professional and workmanlike manner.

#### XIV. Return...

Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepay the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus).

The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sensus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. Sensus SmartPoints modules and MXU's returned must be affixed with a completed return evaluation label. For all returns, Sensus reserves the right to request meter reading records by serial number to validate warranty claims.

For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

THIS SECTION XIV SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFTWARE TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

#### XV. Warranty Exceptions and No Implied Warranties...

This Sensus Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus Limited Warranty do not apply to goods that have been: installed improperly or in non-recommended installations; installed to

a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS AND WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

#### XVI. Limitation of Liability...

SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES; NOR (V) DAMAGES ARISING FROM MAINCASE OR BOTTOM PLATE BREAKAGE CAUSED BY FREEZING TEMPERATURES, WATER HAMMER CONDITIONS, OR EXCESSIVE WATER PRESSURE. "IN/OUT COSTS" MEANS ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN TRANSPORTING GOODS BETWEEN ITS WAREHOUSE AND ITS END USER'S PREMISES AND ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN INSTALLING, UNINSTALLING AND REMOVING GOODS. "END USER" MEANS ANY END USER OF ELECTRICITY/WATER/GAS THAT PAYS CUSTOMER FOR THE CONSUMPTION OF ELECTRICITY/WATER/GAS, AS APPLICABLE.

The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.

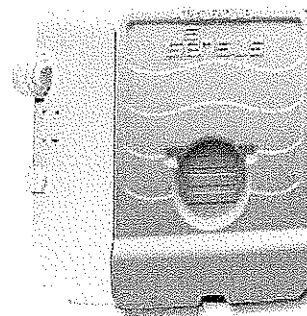
## Attachment C

### Sensus product sheet

## Description

### Model 510M – Non Pit Set

The FlexNet SmartPoint M2 is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. The SmartPoint 510M is designed for non-submersible/non-pit installations. With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations.



## Features

### TOUCHCOUPLER DESIGN

The SmartPoint M2 utilizes TouchCoupler, the patented Sensus inductive coupling communication platform, to interface with the encoded meter. With TouchCoupler, the SmartPoint M2 can connect to the meter using existing two wire AMR installations instead of requiring utilities to access the meter to install a new three-wire system. This results in a fast, efficient and reliable connection at minimal cost.

### OPERATION

The FlexNet SmartPoint M2 receives input from the meter register and remotely sends data to a walk-by/drive-by or fixed base collection device. The SmartPoint M2 easily migrates from walk-by/drive-by to fixed base by simply installing a Base Station.

In walk-by/drive-by mode, the SmartPoint M2 collects data and awaits an activation signal from the Vehicle Gateway Basestation (VGB) or Hand-Held Device (HHD). Upon signal receipt, it transmits readings, the meter identification number and any alarms.

As a fixed-base endpoint, the SmartPoint M2 interacts with one or more strategically placed Base Station located in the utility service area. Top of the hour readings and other diagnostics are instantly forwarded to the Regional Network Interface (RNI) at time of transmission. The FlexNet system provides unmatched reliability by

using expansive tower receiver coverage of metering end points, data/message redundancy, fail over back up provisions and operation on FCC primary use (unshared) RF spectrum.

### POWERFUL TRANSMISSION, FLEXIBLE PLATFORM

The SmartPoint M2 offers several advantages that control both deployment and lifetime operation costs. It's powerful, industry leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. And once the SmartPoint M2 is installed, its migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers.

### ADDITIONAL SMARTPOINT M2 FEATURES

The SmartPoint M2 obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the SmartPoint M2 stores up to 840 consumption intervals (35 days of hourly consumption), providing the utility with the ability to extract detailed usage profiles for consumer information and dispute resolution. The SmartPoint M2 also incorporates a two-port design, allowing the utility to connect multiple registers and ancillary devices (such as acoustic monitoring) to a single SmartPoint. This results in a compact installation that saves

time, space and money – without reducing system performance.

### SPECIFICATIONS

|                                 |                                                                                                                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SERVICE</b>                  | Wall mounted (non-pit/non-submersible) installation interfacing the utility meter to the Sensus FlexNet system.                                                                                                                    |
| <b>PHYSICAL CHARACTERISTICS</b> | Width: 5 9/16" x Height: 5 1/2" x Depth: 3"                                                                                                                                                                                        |
| <b>WEIGHT</b>                   | 1.13 lbs/18.08 oz                                                                                                                                                                                                                  |
| <b>COLOR</b>                    | Tan                                                                                                                                                                                                                                |
| <b>FREQUENCY RANGE</b>          | 900 – 950 MHz, 8000 channels X 6.25 kHz steps                                                                                                                                                                                      |
| <b>MODULATION</b>               | Proprietary Narrow Band                                                                                                                                                                                                            |
| <b>MEMORY</b>                   | Non-Volatile                                                                                                                                                                                                                       |
| <b>POWER</b>                    | Lithium Thionyl Chloride batteries                                                                                                                                                                                                 |
| <b>APPROVALS</b>                | <b>US:</b> FCC CFR 47: Part 90, Part 24D, Part 101C, Part 15<br>Licensed operation<br><b>Canada:</b> Industry Canada (IC) RSS-134, RSS-119, RSS-210                                                                                |
| <b>OPERATING TEMPERATURE</b>    | - 22° F to +185° F<br>- 30° C to + 85° C                                                                                                                                                                                           |
| <b>OPTIONS</b>                  | Dual or single port availability; TouchCoupler only, wired only                                                                                                                                                                    |
| <b>INSTALLATION ENVIRONMENT</b> | The 510M is designed for side-of-home applications where it is not subject to submergence.                                                                                                                                         |
| <b>COMPATIBILITY</b>            | <b>TouchCoupler and Wired Version:</b> Sensus Encoded Registers Badger ADE water registers and MasterMeter AccuLink<br><b>Wired Version Only:</b> Elster Encoder (Sensus protocol) and Neptune ARB VI (ProRead). Hersey Translator |
| <b>WARRANTY</b>                 | 20 years – Based on six transmissions per day. Refer to Sensus G-500 for warranty.                                                                                                                                                 |

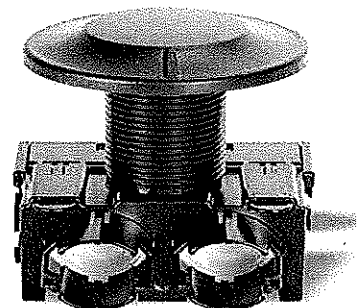
© All products purchased and services performed are subject to Sensus' terms of sale, available at either: <http://na.sensus.com/TC/TermsConditions.pdf> or 1-800-METER-IT. Sensus reserves the right to modify these terms and conditions in its own discretion without notice to the customer.

This document is for informational purposes only, and SENSUS MAKES NO EXPRESS WARRANTIES IN THIS DOCUMENT. FURTHERMORE, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. ANY USE OF THE PRODUCTS THAT IS NOT SPECIFICALLY PERMITTED HEREIN IS PROHIBITED.

## Description

### Model 520M – Pit Set

The FlexNet SmartPoint M2 is a radio transceiver that provides water utilities inbound and outbound access to water measurement and ancillary device diagnostics via radio signal. The SmartPoint 520M is designed for submersible, pit-set environments. With its migratable, two-way communication ability, the M-Series SmartPoint functions as a walk-by/drive-by endpoint, fixed base endpoint, or combination of the two. This flexibility increases utility data collection capabilities and streamlines operations.



## Features

### TOUCHCOUPLER DESIGN

The SmartPoint M2 utilizes TouchCoupler, the patented Sensus inductive coupling communication platform to interface with the encoded meter. With TouchCoupler, the SmartPoint M2 can connect to the meter using existing two wire AMR installations instead of requiring utilities to access the meter to install a new three-wire connection. This results in a fast, efficient and reliable connection at minimal cost.

### OPERATION

The FlexNet SmartPoint M2 receives input from the meter register and remotely sends data to a walk-by/ drive-by or fixed base collection device. The SmartPoint M2 easily migrates from walk-by/drive-by to fixed base by simply installing a Base Station.

In walk-by/drive-by mode, the SmartPoint M2 collects data and awaits an activation signal from the Vehicle Gateway Basestation (VGB) or Hand-Held Device (HHD). Upon signal receipt, it transmits readings, the meter identification number and any alarms.

As a fixed-base endpoint, the SmartPoint M2 interacts with one or more strategically placed Base Stations located in the utility service area. Top of the hour readings and other diagnostics are instantly forwarded to the Regional Network Interface (RNI) at time of transmission. The FlexNet system provides unmatched reliability by

using expansive tower receiver coverage of metering end points, data/message redundancy, fail over back up provisions and operation on FCC primary use (unshared) RF spectrum.

### POWERFUL TRANSMISSION, FLEXIBLE PLATFORM

The SmartPoint M2 offers several advantages that control both deployment and lifetime operation costs. It's powerful, industry leading two watt transmitter broadcasts over large distances and minimizes collection infrastructure. And once the SmartPoint M2 is installed, its migratable, two-way system platform can be updated without requiring personnel to visit each meter and/or inconveniencing customers.

### ADDITIONAL SMARTPOINT M2 FEATURES

The SmartPoint M2 obtains hourly readings and can monitor continuous flow over a programmable period of time, alerting the utility to leak conditions. In addition, the SmartPoint M2 stores up to 840 consumption intervals (35 days of hourly consumption), providing the utility with the ability to extract detailed usage profiles for consumer information and dispute resolution. The SmartPoint M2 also incorporates a two-port design, allowing the utility to connect multiple registers and ancillary devices (such as acoustic monitoring) to a single SmartPoint. This results in a compact installation that saves

time, space and money - without reducing system performance.

### SPECIFICATIONS

|                                 |                                                                                                                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SERVICE</b>                  | Pit set installation interfacing the utility meter to the Sensus FlexNet system. Unit requires 1.75" diameter hole in pit lid; fits pit lid thicknesses up to 1.75"                                                                |
| <b>PHYSICAL CHARACTERISTICS</b> | Width: 4.43" x Height: 5.09" x Depth: 3"                                                                                                                                                                                           |
| <b>WEIGHT</b>                   | 1.0 lbs/16.0 oz                                                                                                                                                                                                                    |
| <b>COLOR</b>                    | Black                                                                                                                                                                                                                              |
| <b>FREQUENCY RANGE</b>          | 900 – 950 MHz, 8000 channels X 6.25 kHz steps                                                                                                                                                                                      |
| <b>MODULATION</b>               | Proprietary Narrow Band                                                                                                                                                                                                            |
| <b>MEMORY</b>                   | Non-Volatile                                                                                                                                                                                                                       |
| <b>POWER</b>                    | Lithium Thionyl Chloride batteries                                                                                                                                                                                                 |
| <b>APPROVALS</b>                | <b>US:</b> FCC CFR 47: Part 90, Part 24D, Part 101C, Part 15<br>Licensed operation<br><b>Canada:</b> Industry Canada (IC) RSS-134, RSS-119, RSS-210                                                                                |
| <b>OPERATING TEMPERATURE</b>    | -22° F to +185° F<br>-30° C to +85° C                                                                                                                                                                                              |
| <b>OPTIONS</b>                  | Dual or single port availability; TouchCoupler only, wired only, Nicor connection                                                                                                                                                  |
| <b>INSTALLATION ENVIRONMENT</b> | 100% condensing, water submersible                                                                                                                                                                                                 |
| <b>COMPATIBILITY</b>            | <b>TouchCoupler and Wired Version:</b> Sensus Encoded Registers Badger ADE water registers and MasterMeter AccuLink<br><b>Wired Version Only:</b> Elster Encoder (Sensus protocol) and Neptune ARB VI (ProRead), Hersey Translator |
| <b>WARRANTY</b>                 | 20 years – Based on six transmissions per day. Refer to Sensus G-500 for warranty.                                                                                                                                                 |

© All products purchased and services performed are subject to Sensus' terms of sale, available at either: <http://na.sensus.com/TC/TermsConditions.pdf> or 1-800-METER-IT. Sensus reserves the right to modify these terms and conditions in its own discretion without notice to the customer.

This document is for informational purposes only, and SENSUS MAKES NO EXPRESS WARRANTIES IN THIS DOCUMENT. FURTHERMORE, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. ANY USE OF THE PRODUCTS THAT IS NOT SPECIFICALLY PERMITTED HEREIN IS PROHIBITED.

Attachment D

Sole source letter

James Shugarts  
Northern Regional Manager

16 South 6<sup>th</sup> Street  
Youngwood, PA 15697

c: 412 298-4258  
[jlm.shugarts@sensus.com](mailto:jlm.shugarts@sensus.com)



January 31, 2014

To Whom It May Concern:

Please be advised that the only authorized distributor in the State of Indiana to stock, service and sell Sensus products is E J Prescott, Inc.

Should you need additional information please contact me at (412) 298-4258.

Yours truly,

A handwritten signature in cursive script that reads "James Shugarts".

James Shugarts  
Northern Regional Manager  
Sensus, USA

# Memo

Date: May 22, 2014  
To: Common Council Members  
From: Ben Groeneweg, City Utilities, Program Manager: Utility Asset Management and Sustainability  
Re: **Purchase Agreement for water meter radios**

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## Council District 4

City Utilities is requesting approval of the purchase of Sensus water meter radios for 2014. The radios will be installed in the Aqua Indiana Utility in preparation for City Utilities acquisition of the Aqua's water utility in southwest Fort Wayne. Aqua Indiana and City Utilities are working together to prepare south west Fort Wayne to be integrated into City Utilities water distribution system.

### Implication of not being approved:

- 2,200 of the 12,200 water meters in the southwest part of the city, currently served by Aqua Indiana, will continue to be manually read by walking meter readers after the acquisition.
- There is a much higher reading error rate with manual meter reading. Additionally it is very inefficient in comparison to drive-by radio meter reading.

### If Prior Approval is being Requested, Justify: n/a

The purchase agreement is a sole source because the water meter radios require proprietary reading equipment and software. Aqua Indian began the conversion to drive-by radio read and chose Sensus. They completed nearly 80% of the system but stopped when negotiations began last summer. We must complete the system with Sensus radios.

City Utilities recommends, and the Board of Public Works has approved, the purchase of Sensus radios for \$243,000. The purchase is for up to 2,500.

### **Council Introduction Date: May 27, 2014**

CC: BOW  
Len Poehler  
John Clark  
Kurt Roberts  
Matthew Wirtz  
Diane Brown  
File